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April 30, 2012

Mr. David Stensby
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Re: Performance Standard Verification Plan Quarterly Monitoring Progress and Performance Evaluation Report (January 1, 2012 to March 31, 2012), Groundwater Treatment System, Omega Chemical Superfund Site, Non-Time Critical Removal Action (NTCRA) Omega Chemical Superfund Site, Whittier, California

Dear Mr. Stensby:

Enclosed for your review is the Performance Standard Verification Plan Quarterly Monitoring Progress and Performance Evaluation Report (January 1, 2012 to March 31, 2012), Groundwater Treatment System, Omega Chemical Superfund Site, Non-Time Critical Removal Action (NTCRA) (PSVP Quarterly Report) for the Omega Chemical Superfund site.

The enclosed PSVP Quarterly Report is being submitted in accordance with the reporting requirements defined in the February 2010 Operations, Maintenance, and Monitoring Manual for the operation of the groundwater treatment system (GWTS). Additionally, this quarterly report describes the GWTS performance monitoring activities per the April 2007 Performance Standards Verification Plan. Overall, this report is being provided to satisfy the data reporting requirements defined under Section IX of the February 2001 Consent Decree (CD) No. 00-12471 between the United States Environmental Protection Agency (USEPA) and OPOG to address contamination in Operable Unit 1 (OU-1).

Should you have any questions, regarding the above, please contact me.

Sincerely,
Omega Chemical Site PRP Organized Group



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**Performance Standard Verification Plan
Quarterly Monitoring Progress Report
(January 1 through March 31, 2012)**

Groundwater Treatment System
Omega Chemical Superfund Site
Non-Time Critical Removal Action (NTCRA)

Prepared for:

Omega PRP Organized Group
(OPOG)

Project No. 10500-90421-EECA.PSVPMPR

April 27, 2012

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Appendix B	Analytical Reports
Appendix C	Groundwater Field Logs
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List of Acronyms

µg/L - micrograms per liter

CD - Consent Decree

COD - chemical oxygen demand

1,1-DCE - 1,1-dichloroethene

EPA - Environmental Protection Agency

GWTS - groundwater treatment system

gpd - gallons per day

gpm - gallons per minute

LACSD - Sanitation District of Los Angeles County

NTCRA - Non-Time Critical Removal Action

OM&M - operation, maintenance and monitoring

OPOG - Omega Chemical Site PRP Organized Group

OU-1 - Operable Unit 1

PCE - tetrachloroethene

PRP - Potentially Responsible Party

PSVP - Performance Standards Verification Plan

Site - Omega Chemical Superfund Site

USEPA - United States Environmental Protection Agency

VOC - volatile organic compound

VPGAC - vapor phase granular activated carbon

Executive Summary

On behalf of the Omega Chemical Superfund Site (Site) PRP Organized Group (OPOG), CDM Smith has prepared this Quarterly Monitoring Progress Report per the Operations, Maintenance, and Monitoring (OM&M) Manual (CDM, February 10, 2010) for the operation of the groundwater treatment system (GWTS). Additionally, this report describes GWTS performance monitoring activities per the Performance Standards Verification Plan (PSVP) (CDM, April 19, 2007). Overall, this report is being provided to satisfy the data reporting requirements defined under Section IX of the February 2001 Consent Decree (CD) No. 00-12471 between the United States Environmental Protection Agency (USEPA) and OPOG to address contamination in Operable Unit 1 (OU-1).

The GWTS began operation on a full time (24/7/365) basis on July 25, 2009 and OM&M activities have been performed since startup. Weekly system maintenance and data collection were performed to maintain and verify system performance. In addition, treated water samples were collected from the GWTS effluent and analyzed for compliance with the Sanitation Districts of Los Angeles County (LACSD) requirements. In addition, vapor samples were collected and analyzed for compliance with the South Coast Air Quality Management District (SCAQMD) requirements during this reporting period.

The overall trend in groundwater elevations in A-Zone wells and piezometers since 1Q2009 has been generally downward through mid-2011. From mid-2011 throughout January 2012, the overall trend appeared to be stable to slightly increasing. The overall trend appears to be decreasing from January 2012 through the end of 1Q2012. The overall trend in well OW4a, which is the farthest A-Zone well from the Putnam Street extraction and is not directly impacted by the remedial pumping, shows a steady decrease from 1Q2009 through mid-2011, followed by a steady increase from mid-2011 throughout January 2012, then decreasing through March 2012.

Groundwater elevation trends in all four B-Zone wells also correlate very well with each other. Groundwater elevations in B-Zone wells showed an initial decline from early 2009 through the end of 2009, increases through approximately June 2010, followed by decreases through approximately October 2010, and then gradual and significant increases from approximately November 2010 through July 2011, followed by decreases through November 2011, increases through January 2012, and ending with an overall decrease through March 2012.

Aqueous samples from the monitoring wells, extraction wells and treatment system were collected for laboratory analysis of volatile organic compounds (VOCs) to assess VOC concentrations in the groundwater at the extraction and monitoring well locations, and performance of the GWTS. During the February 2012 semi-annual groundwater sampling event, tetrachloroethene (PCE) and total volatile organic compounds (VOC) concentrations decreased in all five extraction wells and six of the nine observation wells sampled. The remaining three observation wells had minor increases in total VOC and PCE concentrations.

The GWTS is anticipated to continue operating similarly during the next quarter. Sampling and data collection methods and frequencies will also remain unchanged.

Section 1

Introduction

On behalf of the Omega Chemical Superfund Site (Site) PRP Organized Group (OPOG), CDM Smith has prepared this quarterly monitoring progress and performance evaluation report per the Operations, Maintenance, and Monitoring (OM&M) Manual (CDM, February 10, 2010) for the operation of the groundwater treatment system (GWTS). Additionally, this report describes GWTS performance monitoring activities per the Performance Standards Verification Plan (PSVP) (CDM, April 19, 2007). Overall, this report is being provided to satisfy the data reporting requirements defined under Section IX of the February 2001 Consent Decree (CD) No. 00-12471 between the United States Environmental Protection Agency (USEPA) and OPOG to address contamination in Operable Unit 1 (OU-1). A site map is presented in Figure 1-1.

1.1 Purpose and Scope

The purpose of this report is to summarize the GWTS operational and performance monitoring data collected during the period January 1 through March 31, 2012. GWTS operational data allow assessment of the efficiency of the system and confirmation of system performance in meeting the remedial goals of the project. Remedial Action Objectives (RAOs) are to provide horizontal and vertical containment within the Phase 1a Area of the groundwater contamination associated with the Omega property and to meet air emission and water treatment standards associated with the treatment and disposal of the extracted groundwater.

The scope of the GWTS data collection is described in Sections 5 and 6 of the OM&M Manual and generally consists of GWTS compliance monitoring, process monitoring, performance monitoring, and vapor compliance monitoring. With respect to performance monitoring, there is an overlap between the OM&M Manual and the PSVP because the performance monitoring criteria are described in both documents. With this understanding, the performance monitoring criteria generally consist of water level and water quality data to confirm that the GWTS is performing as designed, and performance standards are being met.

1.2 Report Organization

The remaining sections of the report are organized as follows:

- Section 2 presents a brief description of the treatment system and discusses the monitoring results and summary for the treatment plant operation.
- Section 3 presents a brief summary of the performance monitoring activities and discusses the methodology and results.
- Section 4 presents the analysis and findings of the treatment system and performance monitoring results.
- Section 5 summarizes the observations and provides recommendations.
- Section 6 contains references.

The appendices are organized as follows:

- Appendix A Figures, Tables, and Graphs of Results

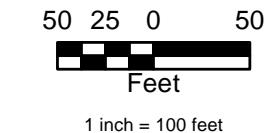
Appendix A includes treatment system operations data in Appendix A1, groundwater elevation data in Appendix A2 and monitoring and extraction well analytical data in Appendix A3.

- Appendix B Analytical Reports
- Appendix C Groundwater Field Logs
- Appendix D Data Validation



Legend

- Phase Ia Area
- Former Omega Chemical Facility
- Former Building
- Other Buildings
- Extraction Well
- Existing Shallow Observation Well / Piezometer
- Existing Deep Observation Well / Piezometer



Omega Chemical
**Observation Well, Extraction Well
and Piezometer Locations**

Section 2

Treatment Plant Operations Summary

The GWTS began operating on a full time (24/7/365) basis on July 25, 2009. OM&M activities, including equipment inspection and data collection, are being performed in accordance with the procedures described in the OM&M Manual and PSVP.

As shown in Figure 2-1 (Process Flow Diagram; Record Drawing G-3) and Figure 2-2 (Plan View of Extraction Wells, Treatment System and Conveyance Piping), a total of five extraction wells (EW-1, EW-2, EW-3, EW-4 and EW-5) are in operation, and the extracted water is transported by a conveyance pipeline to the treatment plant.

Extracted groundwater enters the treatment plant, and passes through two bag filters in parallel to remove sediment and suspended particulate matter. An anti-scalant unit with a metering pump injects chemicals into the process piping to minimize scaling prior to treatment. The water flows into the air stripper system through five distribution aeration trays. Atmospheric air is pulled through the air stripper by an induced-draft blower through hundreds of small diameter holes in each aeration tray, forming a series of bubbles and generating a large mass transfer surface area where the contaminants are volatilized. The treated water flows through an in-ground concrete sample box (as required by Los Angeles County Sanitation District (LACSD) for periodic sampling) and subsequently into an in-ground concrete effluent sump. An effluent sump pump discharges the treated water through a flow meter prior to exiting the treatment plant to the sewer manhole.

The vapor stream containing volatilized constituents is treated by a pair of vapor phase granular activated carbon vessels configured in series. Procedures to verify operation and performance of the GWTS per the O&M Manual are discussed in the following sections.

2.1 System Runtime

System uptime is critical to ensure that the system is performing as designed. Part of maintaining uptime includes performing periodic equipment inspection, lubrication, cleaning, repair and maintenance as prescribed in the OM&M manual.

System uptime is calculated by the number of hours the system operated daily. Figure A1-1 in Appendix A.1 presents a graph of the system runtime data since system operation began on July 25, 2009. Table A1-1 in Appendix A.1 provides the data for monthly system uptime.

2.2 Groundwater Production

System Flow Rate

Groundwater production is a measure of the volume of water extracted and treated. The values can be expressed in gallons per minute (gpm), gallons per day (gpd), gallons per month, etc. The system effluent totalizing flow meter continuously records the total volume in gallons passing through the device and computes the flow rate in gpm prior to discharge into the sewer. Table A1-1 in Appendix A.1 presents a tabular summary for the Total Groundwater Treated and Average System Flow Rate in gpm and gpd. Figure A1-2 in Appendix A.1 presents a graph of treated daily groundwater production flow rate in gpd.

Extraction Wells Flow Rate

Each of the five extraction wells (EW-1 through EW-5) is equipped with a flow meter to record volumes in gallons and flow rates in gpm individually. The average flow rate (including downtime) for each extraction well is calculated by taking the difference between the two totalizer readings and divided by the time in days or minutes between the two recorded readings yielding the units of gallons per day or gallons per minute.

Table A1-2 in Appendix A.1 presents a summary of flow data for the extraction wells. Figure A1-3 in Appendix A.1 presents a graph of individual extraction wells production flow rate in gpd.

2.3 Contaminant Concentrations

Groundwater

Groundwater from each of the extraction wells is pumped into a common conveyance pipe as one combined influent source to the treatment plant for treatment. After treatment, effluent samples are collected to monitor the effectiveness of the treatment system and for compliance. The OM&M manual prescribes the method and frequency for the sampling of influent groundwater. Table A1-3 in Appendix A.1 presents the groundwater analytical results for system Influent and Effluent samples. Figure A1-4 in Appendix A.1 presents graphs of the total VOC and PCE concentrations from the influent samples. Laboratory analytical reports for vapor samples are presented in Appendix B.

Vapor

Vapors from the air stripper are currently being treated by vapor phase granular activated carbon (VPGAC) vessels to comply with substantive South Coast Air Quality Management District air quality requirements. Influent at the inlet to the primary vessel, midpoint in-between primary and secondary vessels and effluent at the exhaust from the secondary vessel are monitored with the procedures and frequency as described in the OM&M manual. Table A1-4 in Appendix A.1 presents the vapor analytical results for Influent, Midpoint and Effluent samples. Figure A1-5 in Appendix A.1 presents a graph of the vapor influent results for total VOCs prior to carbon treatment. Laboratory analytical reports for vapor samples are presented in Appendix B.

2.4 VOC Mass Removed from Groundwater

Mass removed from groundwater is calculated by multiplying the influent analytical concentrations (ug/L) with flow (gallons) and converting it to the correct units. The formula is as follows:

$$\text{Mass Removed (lb)} = \frac{\text{Concentration (ug/L)} * \text{Volume (gallons)}}{0.264 \text{ gallon/L} * 453.6 \times 10^6 \text{ ug/lb}}$$

Since groundwater influent laboratory analysis is performed on a monthly basis, mass removed is calculated using the concentrations from the laboratory results for the month and average volume of groundwater produced for the month for the equation. Cumulative Mass Removed is a summation of the monthly mass removed values.

Table A1-1 in Appendix A.1 provides a summary for the Average VOC Mass Removed. Figure A1-6 in Appendix A.1 presents a graph of the cumulative VOC mass removed.

2.5 Compliance Monitoring

Groundwater

The LACSD issued an Industrial Waste Discharge Permit (No. 20039) for the discharge of treated groundwater from the Omega Chemical GWTS to the regional sanitary sewer system. Therefore, a sample of the effluent water is collected for laboratory analysis from the groundwater treatment system on a quarterly basis in accordance with the permit.

The permit requires that the treated water be discharged to the sample box constructed per LACSD specification and then quantified by a flow meter located inside the plant before being discharged into the sewer manhole (No. MH 18-0271) at Crowndale Street.

All compliance samples are collected from the sample box identified as 20039A by a third party representative (currently Test America) as required by the permit, and submitted to a state-certified laboratory for analysis of the following parameters on a standard turnaround basis:

- TTO - Volatile organic compounds, by Method 8260B;
- 1,4-Dioxane by Method 8270M;
- TTO - Semi-volatile organic compounds by Method 8270C;
- Soluble Sulfide by Method SM4500S +D;
- pH by field analysis;
- TSS by Method SM2540D; and
- COD by Method SM5220D.

Chemical oxygen demand (COD) and total suspended solids (TSS) are collected as a 24 hour composite sample; while the other constituents are collected as grab samples.

Samples to fulfill LACSD requirements were collected during the 1st Quarter 2012. Analytical results were submitted to LACSD with the required quarterly self monitoring report on April 13, 2012. Laboratory results for the 1st Quarter 2012 are provided in Appendix B.4.

Vapor

Although a permit to operate is not required from SCAQMD, monitoring of the VPGAC system is being performed to comply with substantive requirements.

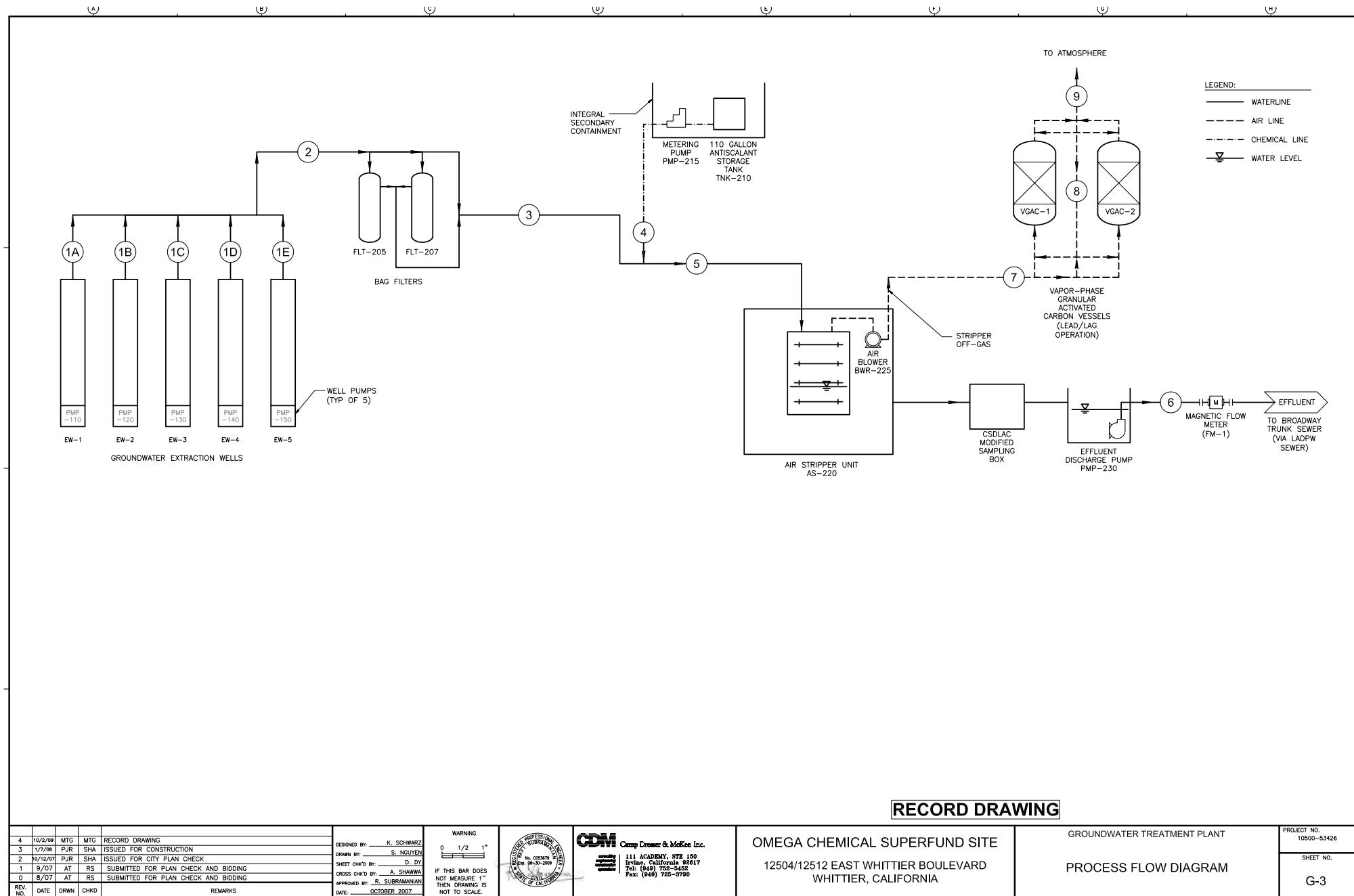


Figure 2-1

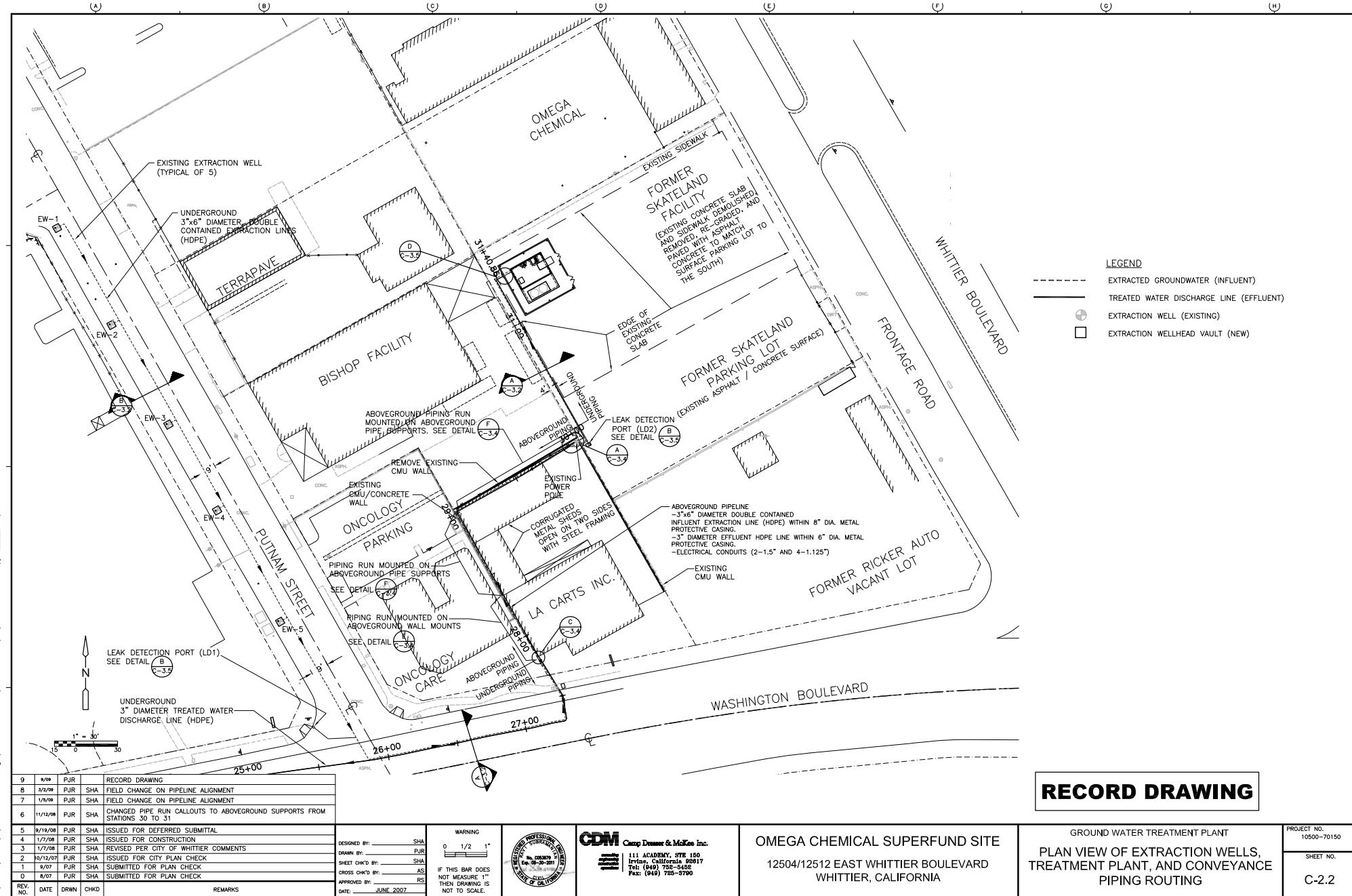


Figure 2-2

Section 3

Performance Monitoring

Monitoring activities to verify performance of the GWTS per the PSVP are discussed in the following sections.

3.1 Monitoring Activities

Performance monitoring for the groundwater remedy began after the system was placed into operation in accordance with the PSVP. Prior to commencement of operations, "base line" piezometric and water quality data were collected. The PSVP specifies the monitoring of water levels and water quality in selected monitoring wells and piezometers to assess the effectiveness of the groundwater extraction system. The PSVP monitoring and reporting requirements are summarized in the following sections.

3.1.1 Monitoring (Water Levels and Water Quality Samples)

Wells specified for water level monitoring and water quality sampling and monitoring frequency are described below.

Water Levels

- Monitoring wells OW-1, OW-1b, OW-2, OW-3, OW-3b, OW-4a, OW-4b, OW-7, OW-8, OW-8b, OW-9, OW-10, and piezometers (PZ), PZ-1, PZ-2, PZ-3, PZ-4, and the recently installed piezometers PZ-5, PZ-6, PZ-7 and PZ-8
- Extraction wells EW-1 through EW-5
- The frequency of water level measurements was weekly for three months (September through November 2009) and then monthly since December 2009. The frequency was to be re-evaluated following two years of monitoring (i.e., in July 2011) and at this time no modifications to the frequency are proposed.

Water Quality Samples

During 1Q2012, monitoring wells OW-1, OW-1b, OW-3, OW-3b, OW-4a, OW-4b, OW-7, OW-8b, OW-9 and OW-10, and extraction wells EW-1 through EW-5 were sampled in February during the semi-annual sampling event. Additionally during this event, piezometers PZ-3, PZ-5 and PZ-6 were also sampled. Wells OW-2 and OW-8 were not sampled because they were dry.

A sample was collected and submitted for laboratory analysis from well OW-1 during the February 2012 semi-annual sampling event. However, the results were qualified as rejected as the sample was believed to not be representative of subsurface conditions. The water level prior to purging was 0.16 foot above the bottom of the screened section and the well has a five-foot long bottom sump. The sample, therefore, likely included some stagnant water due to the technical impracticability of removing all standing water from the sump during purging. The OW-1 results, therefore, are not included in the summary tables, figures, or following discussion.

All water quality samples collected from the monitoring wells, extraction wells and piezometers during 1Q2012 were analyzed for the following parameters at a fixed-base laboratory:

- VOCs, plus acetone, Freon 11, Freon 12, and Freon 113 by Method 8260B
- 1,4-Dioxane by Method 8270M.

Specific conductance, temperature, pH, and turbidity were measured during monitoring well purging using field instruments.

3.1.2 Reporting Requirements

As required by the PSVP, reporting is being performed as indicated below:

- Quarterly Progress Reports which summarize remedial system performance monitoring activities and data collected.
- Annual Performance Monitoring Reports which include an evaluation of remedial system performance for each of the four quarters of the year.
- In the event of non-compliance with performance standards, EPA will be notified within five days of discovery.

3.2 Groundwater Elevation Summary

A discussion of groundwater elevation measurements and groundwater elevation trends is provided below.

3.2.1 Groundwater Elevation Measurements

The Omega Chemical observation wells, piezometers, and extraction wells were gauged monthly in the first quarter of 2012. The monitoring wells were gauged on January 24, February 29, and March 16, 2012 by Blaine Tech Services (Blaine Tech). Blaine Tech measured static water levels using a decontaminated, electronic water level sounder, prior to sampling. The measurement was repeated three times at each well to insure its accuracy. The sounder was decontaminated using a triple rinse of soapy water, tap water, and distilled water. The extraction wells were gauged on January 19, February 21, and March 28, 2012 by Jacob Hefner and Associates using the same methodology as the monitoring wells. A depth to water measurement was not obtained at EW-3 in March due to technical difficulties with the water level sounder. Likely, at the time of the attempted measurement, the water level was below the depth of the sounding tube and the sounder was obstructed by the pump or cable when it descended out of and below the sounding tube. Groundwater elevations are summarized in Table A2-1 in Appendix A.2.

3.2.2 Groundwater Elevation Trends

Groundwater elevation graphs illustrating water level trends during the period from 1Q2009 through 1Q2012 are included as Figures A2-1, A2-2, and A2-3 in Appendix A.2. Field water level summary sheets are provided in Appendix C. The below discusses general trends in A-Zone (essentially the water table aquifer) wells and piezometers and B-Zone (water-bearing unit underlying the A-Zone and separated from the A-Zone by a confining unit) wells. Significant events that could potentially impact local groundwater elevations and trends are also noted in the discussion below.

As a result of the Putnam Street remedial pumping, A-Zone monitoring wells OW-2 and OW-8 on Putnam Street have been primarily dry since late-2009 with the exception of four sporadic measurable depths to water at OW-2, and one at OW-8 between then and the present quarter. The

overall trend in groundwater elevations in A-Zone wells and piezometers since 1Q2009 has been generally downward through mid-2011. From mid-2011 through 4Q2011, the overall trend appeared to be stable to slightly increasing. In 1Q2012, water levels in the A-Zone wells and piezometers increased throughout January, decreased throughout February, and increased in March, with the exceptions of OW-1, PZ-1 and PZ-7. The water level in OW-1 steadily decreased since December 2011 until it was dry in March 2012. The water level in PZ-4 (the farthest monitoring point from the extraction well array) has steadily increased since July 2011, likely because of the distance from the pumping array and the low, intermittent pumping rates of EW-4 and EW-5. Lastly, the water level in PZ-1 (the closest to EW-2) has steadily decreased since June 2011, likely because of the near-continuous pumping at EW-2. Figure A2-3 illustrates the trend over time as observed at the piezometers.

Review of Figures A2-1 and A2-3 show that groundwater elevations increased significantly in A-Zone wells OW-3, OW-9, and OW-10 and all four A-Zone piezometers that were gauged on January 27, 2011. This rise on January 27th was likely caused, in large part, by the extraction wells being shut down for the prior week due to a PLC failure at the treatment plant from January 20-27, 2011. The plant resumed operations on the same day the wells were gauged.

The overall trend in well OW-4a (Figure A2-1), which is the farthest A-Zone well from the Putnam Street extraction and is not directly impacted by the remedial pumping, shows a steady decrease from 1Q2009 through mid-2011, followed by a steady increase from mid-2011 throughout 1Q2012.

There appears to be an anomaly in the January 2012 elevation measurements at well OW-9. The OW-9 hydrograph reveals an anomalously high elevation. This anomaly is not reflected in the other A-Zone wells, therefore, it is likely that the depth to water measurements are incorrect.

The pumping groundwater elevations of the extraction wells are measured and graphed, but are not analyzed or discussed because of the unreliable nature of the data. Wells EW-1, EW-3, EW-4 and EW-5 operate on a cyclic pumping cycle and the pumps shut off when the water level reaches the pump intake, therefore, a true pumping level cannot be determined. The groundwater elevation in EW-2 has been consistently higher than the nearest piezometers, PZ-1 and PZ-2, indicating that it is also not a reliable measurement.

Groundwater elevation trends in all four B-Zone wells (Figure A2-2) also correlate very well with each other. Groundwater elevations in B-Zone wells showed an initial decline from early 2009 through the end of 2009, increases through approximately June 2010, followed by decreases through approximately October 2010, and then gradual and significant increases from approximately November 2010 through July 2011, followed by decreases through November 2011, and ending with increases through December 2011. The B-Zone well water levels followed the same trend as A-Zone wells in 1Q2012, rising through January, falling through February, and rising again in March 2012, with the exception of OW-4b, where the water level decreased 0.04 feet in March 2012 compared to the February 2012 levels.

Water levels from the Omega monitoring wells and piezometers were used to create the groundwater elevation contour map provided as Figure A2-5 in Appendix A.2. The extraction well data were excluded from the contour map for two reasons; first, because the data were collected on different days than the monitoring well and piezometer data were collected, and second, because the measured groundwater elevations are greater in the extraction wells than the nearby observation points, implying that the depth to water during pumping was not measured at its lowest depth. During

subsequent water level measurements at well EW-2, field staff will collect multiple measurements over a 10 to 15 minute period in an effort to evaluate fluctuations in the pumping water level. The lowest measured water level will then be utilized for the EW-2 hydrograph and groundwater contour map.

3.3 Groundwater Analytical Summary

3.3.1 Groundwater Sampling Procedures

The monitoring wells and extraction wells were sampled in February 2012 during the semi-annual sampling event.

3.3.2 Groundwater Sampling Analytical Results

Groundwater sampling of the monitoring and extraction wells last occurred on February 21 and 22, 2012. Analytical results are summarized in Tables A3-1 and A3-2 located in Appendix A.3.

Concentration graphs of PCE, total VOCs, and 1,4-dioxane are included in Figures A3-1 through A3-17 in Appendix A.3. PCE concentrations are also illustrated on Figures A3-18 and A3-19 in Appendix A.3. As previously discussed in Section 3.1.1, although a groundwater sample was collected and analyzed from OW-1, the results are not included in the figures or tables because they are not considered representative.

The total VOCs, PCE and 1,4-dioxane concentrations decreased or remained below laboratory detection limits from August 2011 to February 2012 in all 5 extraction wells (EW-1 through EW-5) with the exception of EW-4 that had a 1,4-dioxane concentration of 24 µg/L. This is the first detection above laboratory detection limits of 1,4-dioxane in EW-4. It is likely related to an anomalous 1,4-dioxane concentration spike observed at adjacent OW-3 in August 2011.

Total VOCs, PCE and 1,4-dioxane concentrations have decreased in all of the observation wells with the exceptions of OW-1b, OW-4a and OW-7 which had small increases. The total VOC and PCE concentrations increased by 1.7 µg/L and 2 µg/L in OW-1b, 41.3 µg/L and 3 µg/L in OW-4a, and 10.5 µg/L and 2.5 µg/L in OW-7, respectively.

The total VOC and PCE concentrations detected in PZ-3, PZ-5 and PZ-6, sampled for the first time in 1Q2102, were 790 µg/L and 390 µg/; 86 µg/L and 50 µg/L; and 110 µg/L and 90 µg/L, respectively. 1,4-dioxane was not detected above laboratory detection limits in these piezometers. The detected concentrations in these piezometers are consistent with the observed footprint of the PCE plume.

3.3.3 Data Quality Assessment

Data were evaluated to determine if they are usable for project objectives. A summary table of the data collected during this quarter is presented as Table 3-1. The table provides details regarding the type of sample collected, sampling dates, field and laboratory QC, level of validation, and data usability. Data were also reviewed to determine sampling frequency, target analyte list, reporting limits, and holding times.

No secondary data are used for this project. In summary, with one exception, all new data were determined to be usable for project objectives. As discussed previously in Section 3.1.1, the groundwater sample collected from well OW-1 in February 2012 was believed to be non-representative. Therefore, the results were rejected and are not included in the tables and figures of this document.

Data validation was performed during this quarter for the monitoring wells sampled in February 2012. The data validation memo is presented in Appendix D.

Sample collection and data review were conducted in accordance with the OM&M Manual and the Sampling and Analysis Plan for Long Term Operations and Maintenance of the Groundwater Treatment System and Groundwater Monitoring (dated August 9, 2010).

Table 3-1
Data Quality Assessment Table

Sampling Event	Sampling Rationale	Frequency of Analysis	Matrix	Lab WO #	Sampling Date	Field Quality Control Samples	Level 4 validation	Review of Laboratory Quality Control Samples	Data Usability
SDLAC Quarterly Sampling	Quarterly sampling of the treatment plant effluent is required per Los Angeles County Sanitation District Industrial Waste Discharge Permit Number 20039	Quarterly	Water	440-6969	3/29/2012	Equipment blanks are not needed as sampling equipment is not used. Trip blanks and field duplicates are not needed for this compliance sampling.	No	MB, LCS/LCSD, MS/MSD, surrogates	Results are usable for project objectives. Holding times, reporting limits, target compound list were all met. The laboratory report indicates that calibration verification recovery was above method control limits for n-nitrosodimethylamine but the result were not detected in the sample so the data were not impacted. The 2-chloroethyl vinyl ether had low MS/MSD recoveries, however the LCS recoveries were within criteria and no action was taken based on MS/MSD only. Phenol was detected in the method blank above the reporting limit, however, phenol was not detected in the sample and therefore no action was needed.
GWTS PROCESS SAMPLING <i>SCAQMD Compliance</i>	Sampling of the influent, midpoint and effluent sample ports of the granular activated carbon (GAC) vessels is required monthly for the SCAQMD permit.	Monthly	Air	D011903 12-02-1269 12-03-2048	1/19/2012 2/21/2012 3/28/2012	Equipment blanks are not needed as sampling equipment is not used to collect the vapor samples. Trip blanks are not typically submitted with Summa canisters. Field duplicates are not needed for this compliance sampling.	No	MB, LCS/LCSD, surrogates	Results are usable for project objectives. Holding times, reporting limits, target compound list, method blank, surrogates, LCS/LCSD, and calibration criteria were all met for target compounds. The tuning standard (BFB) was out of the laboratory criteria listed for Mass 176, however it was within the TO-15 Method criteria. Additionally all surrogates were within acceptable limits and therefore no action was needed. Results are usable for project objectives. Holding times, reporting limits, target compound list, method blank, surrogates, and LCS/LCSD were all met for target compounds.
<i>Treatment System Process Sampling</i>	Analysis of the influent and effluent samples (before and after the air stripper) from the treatment system groundwater are needed to assess the performance of the treatment equipment	Monthly (monthly for the first year of operation for the influent sample; frequency may change after 1st year); monthly for effluent sample	Water	IVA1832 440-3337-1 440-6969	1/9/2012 2/1/2012 3/29/2012	Equipment blanks are not needed as no sampling equipment is used to collect these samples from the sample ports. Field duplicates are not needed for this treatment assessment sampling. Trip blanks were analyzed with these samples and all trip blank results were nondetect.	No	MB, LCS/LCSD, MS/MSD, surrogates	Results are usable for project objectives. Holding times, reporting limits, target compound list, method blank, surrogates, LCS/LCSD and MS/MSD criteria were met for all compounds. Results are usable for project objectives. Holding times, reporting limits, target compound list, method blank, surrogates, and LCS/LCSD criteria were met for all compounds. Several compounds in the MS/MSD for VOCs were outside of criteria for either the % recovery or for the RPD, however the compounds were all within the limits for the LCS, and therefore no action was required. Results are usable for project objectives. Holding times, reporting limits, target compound list, method blank, surrogates, LCS/LCSD and MS/MSD criteria were met for all compounds.
GROUNDWATER SAMPLING EVENTS <i>Extraction Wells</i>	(EW1 through EW-5) Extraction wells are monitored to assess the water quality of the groundwater contamination and the treatment system.	Semiannually (February)	Water	440-3337-1	2/21/2012	Equipment blanks are not needed as no sampling equipment is used to collect these samples from the sample ports. Field duplicates are not needed for this treatment assessment sampling. Trip blanks were analyzed with these samples and all trip blank results were nondetect.	No	MB, LCS/LCSD, MS/MSD, surrogates	See above. The EWs and the Treatment System Process Samples for February were both in the same laboratory report.
<i>Observation Wells</i>	(OW1, OW1b, OW3, OW3b, OW4a, OW4b, OW7, OW8b, OW9, OW10 PZ3, PZ5, PZ6) Required in the Omega Groundwater Remedy Performance Standards Verification Plan Monitoring	Semiannually (February)	Water	440-3506-2 440-3506-1 440-3385-1	2/21/12 and 2/22/12	One equipment blank was collected each day of sampling. Trip blanks were analyzed with these samples. Two field duplicates were collected during this sampling event. Field duplicate results and trip and equipment blank samples are discussed in the data validation memo.	Yes, one sample was validated with a level 4 data package. Lab QC data for all samples were reviewed and included in the validation.	Data validation	See Data Validation Memo in Appendix D.

Data were reviewed by Elizabeth Fortuna and Barbara Wells of CDM Smith

If a surrogate was diluted out due to a high dilution factor, the data is determined as usable.

If an LCS or LCSD surrogate recovery was above laboratory limits, but the analyte was nondetect, the data is determined to be usable.

If an MS or MSD surrogate recovery was above laboratory acceptance limits, but the LCS was within criteria, the data is determined to be usable.

If analytes were detected in the method blank below reporting limits, no action was taken and the data was determined to be usable.

Section 4

Analysis and Findings

This section presents observations and findings from the performance monitoring results.

4.1 Groundwater Production and Mass Removed

The objective for the GWTS is to contain contaminated groundwater in OU1. The volume of groundwater extracted and the mass of contaminants removed are discussed in the following text.

4.1.1 Groundwater Discharge Rates

The system produced the following volume and removed the following contaminant mass from the treated groundwater as summarized below:

A total of 17,594,341 gallons of groundwater have been processed cumulatively since operations began on July 25, 2009. For the 1st Quarter of 2012, 643,303 gallons were extracted in January; 624,198 gallons in February; and 665,882 gallons in March.

The average system flow rate since operations began on July 25, 2009 is approximately 17,564 gallons per day (gpd) and 12.2 gallons per minute (gpm). Flow rates in the 1st Quarter 2012 were 20,752 gpd (14.4 gpm) in January; 20,807 gpd (14.4 gpm) in February; and 21,480 gpd (14.9 gpm) in March.
(Please note that the average system flow rate is recorded from the effluent flow meter and does not equal the sum of the individual extraction wells flow rate, potentially due in part to approximations.)

4.1.2 Extraction Well Production Rates

The totalizer values and instantaneous pumping rates from each of the five extraction wells are also recorded manually on a weekly basis. The total volume pumped from each well and average extraction rates for the individual wells are summarized for this quarter as follows:

Summary of Extraction Well Production Data

Month	Extraction Wells				
	EW-1	EW-2	EW-3	EW-4	EW-5
January					
Monthly Volume *1	71,319	488,662	5,751	140	14,010
Average Flow Rate	1.8	12.1	0.1	0.0	0.3
February					
Monthly Volume *2	54,155	527,584	5,164	0	13,909
Average Flow Rate	1.4	14.1	0.1	0.0	0.4
March					
Monthly Volume *3	66,032	721,798	7,353	21	18,209
Average Flow Rate	1.3	13.9	0.1	0.0	0.4
Cumulative					
Avg (gpm) for last Quarter	1.5	13.4	0.1	0.0	0.4
Avg (gpm) since startup	1.7	10.3	0.2	0.1	0.4
Total Volume Extracted	2,418,974	14,380,787	325,312	182,827	528,398

Note:

*1 Readings recorded between 12/29/11 to 1/26/12

*2 Readings recorded between 1/26/12 to 2/21/12

*3 Readings recorded between 2/21/12 to 3/28/12

The average flow rate (including downtime) for EW-1 decreased from 2.0 gpm (4th Quarter 2011) to 1.5 gpm (1st Quarter 2012). The average flow rate (including downtime) for EW-2 increased from 10.4 gpm (4th Quarter 2011) to 13.4 gpm (1st Quarter 2012). The average flow rate (including downtime) for EW-3 decreased from 0.2 gpm (4th Quarter 2011) to 0.1 gpm (1st Quarter 2012). The average flow rate (including downtime) for EW-4 decreased from 0.1 gpm (4th Quarter 2011) to 0.0 gpm (1st Quarter 2012) due to pump malfunction. The average flow rate (including downtime) for EW-5 was 0.4 gpm during the 4th Quarter 2011 and 1st Quarter 2012.

EW-2 is the only well that is pumping on a continuous basis without cycling on and off. Average flow rate for EW-2 increased to 13.4 gpm for the quarter. The remaining wells constructed in lower permeability soil materials, pump intermittently. Table A1-2 in Appendix A.1 presents a summary of flow data for the extraction wells since system startup. Figure A1-3 in Appendix A.1 presents a graph of individual extraction wells production flow rate in gpd since system startup.

4.1.3 Mass Removed

A total of 628.6 pounds of VOCs have been removed cumulatively since July 25, 2009. For the 1st Quarter 2012, a total of 11.9 pounds was removed in January, 16.2 pounds in February, and 16.5 pounds in March.

4.2 Capture Analysis

Review of the groundwater elevation contour map (Figure A2-5 in Appendix A.2) illustrates that flow is converging on well EW-2, which has the highest quarterly average pumping rate in the system at 13.4 gpm, which is 87 percent of the quarterly total extraction rate of 15.4 gpm. As noted on Figure A2-5 (Footnote 2), the historical low (from 2010) was used at well EW-2 in order to center the cone of

depression around well EW-2. As previously discussed in Section 3.2.2, subsequent water level measurements will attempt to determine the lowest pumping level at well EW-2, which will be utilized for groundwater contouring purposes. The hydraulic gradient from the extraction wells toward the site is much steeper, due to the lower permeability lithology that is present in this area.

The capture analysis will be updated with additional groundwater modeling to be completed for the Addendum to 2011 Annual Monitoring Progress and Performance Evaluation Report. The updated analysis will include updated average pumping rates from 1Q2012, particle tracking analysis and stagnation point determinations.

Section 5

Observations and Recommendations

This section briefly summarizes pertinent observations, and presents recommendations for modification(s), if required.

5.1 Observations

The overall trend in groundwater elevations in A-Zone wells and piezometers since 1Q2009 has been generally downward through mid-2011. From mid-2011 throughout January 2012, the overall trend appeared to be stable to slightly increasing. The overall trend appears to be decreasing from January 2012 through the end of 1Q2012. The overall trend in well OW4a, which is the farthest A-Zone well from the Putnam Street extraction and is not directly impacted by the remedial pumping, shows a steady decrease from 1Q2009 through mid-2011, followed by a steady increase from mid-2011 throughout January 2012, then decreasing through March 2012.

A-Zone groundwater elevations in the monitoring wells and piezometers along Putnam Street appear to be largely controlled by extraction well pumping, particularly from EW-2 which contributes the majority of the total extraction.

Groundwater elevation trends in all four B-Zone wells also correlate very well with each other. Groundwater elevations in B-Zone wells showed an initial decline from early 2009 through the end of 2009, increases through approximately June 2010, followed by decreases through approximately October 2010, and then gradual and significant increases from approximately November 2010 through July 2011, followed by decreases through November 2011, increases through January 2012, and ending with an overall decrease through March 2012.

The discharge rates from the system have declined since system startup. The average production rate of all extraction wells combined (including downtime) is approximately 12.7 gpm since operation of the extraction wells began on a continual basis in July 2009.

The submersible pump for extraction well EW-4 was shut off for repair during the 1st Quarter 2012 due to a malfunction of its motor starter and was unable to run properly in automatic mode. This issue will be mitigated during the 2nd Quarter 2012.

EW-2 yields the greatest volume of groundwater and the most contaminant mass, and is the only well that is pumping on a continuous basis without cycling on and off. The remaining wells, constructed in lower permeability soil materials, pumped intermittently.

5.2 Recommendations

The GWTS is anticipated to continue operating similarly during the next quarter. Sampling and data collection methods and frequencies will also remain unchanged.

The PSVP required that semi-annual groundwater sampling be performed for the first two years of operation of the GWTS. It is recommended that the sampling of monitoring wells and extraction wells for VOCs and 1,4-dioxane continue on a semi-annual basis for a fourth year (July 2012 to July 2013), following which additional evaluation will again be performed to assess a potential change in sampling frequency.

An addendum to the 2011 Annual Monitoring Progress and Performance Evaluation Report will include an updated groundwater model used to assess the effectiveness of capture. This updated model will include (a) the revised pumping rates resulting from re-development of the extraction wells, (b) model-predicted particle path lines, and (c) capture zone stagnation point calculations.

Section 6

References

- CDM, 2007. *Performance Standards Verification Plan for Phase 1a Area Groundwater Treatment System*, April 19.
- CDM, 2010. *Final Operations, Maintenance and Monitoring Manual*, February 10.
- CDM, 2010. *Sampling and Analysis Plan for Long Term Operation and Maintenance of the Ground Water Treatment System and Groundwater Monitoring*. August 9.
- CDM, 2011. *Documentation of the Omega Non-Time Critical Removal Action Capture Zone Model Technical Memorandum*. May 23.
- CDM. 2011. *Work Plan for Proposed Additional Piezometer and Monitoring Well*. October 13.
- USEPA, 2001. *Consent Decree No. 00-12471*, February 28.

Appendix A

Figures, Tables, and Graphs of Results

Attachment 1

Treatment System Operations

Summary of Tables and Graphs

Figure A1-1
Omega Chemical Superfund Site
GWTS Uptime

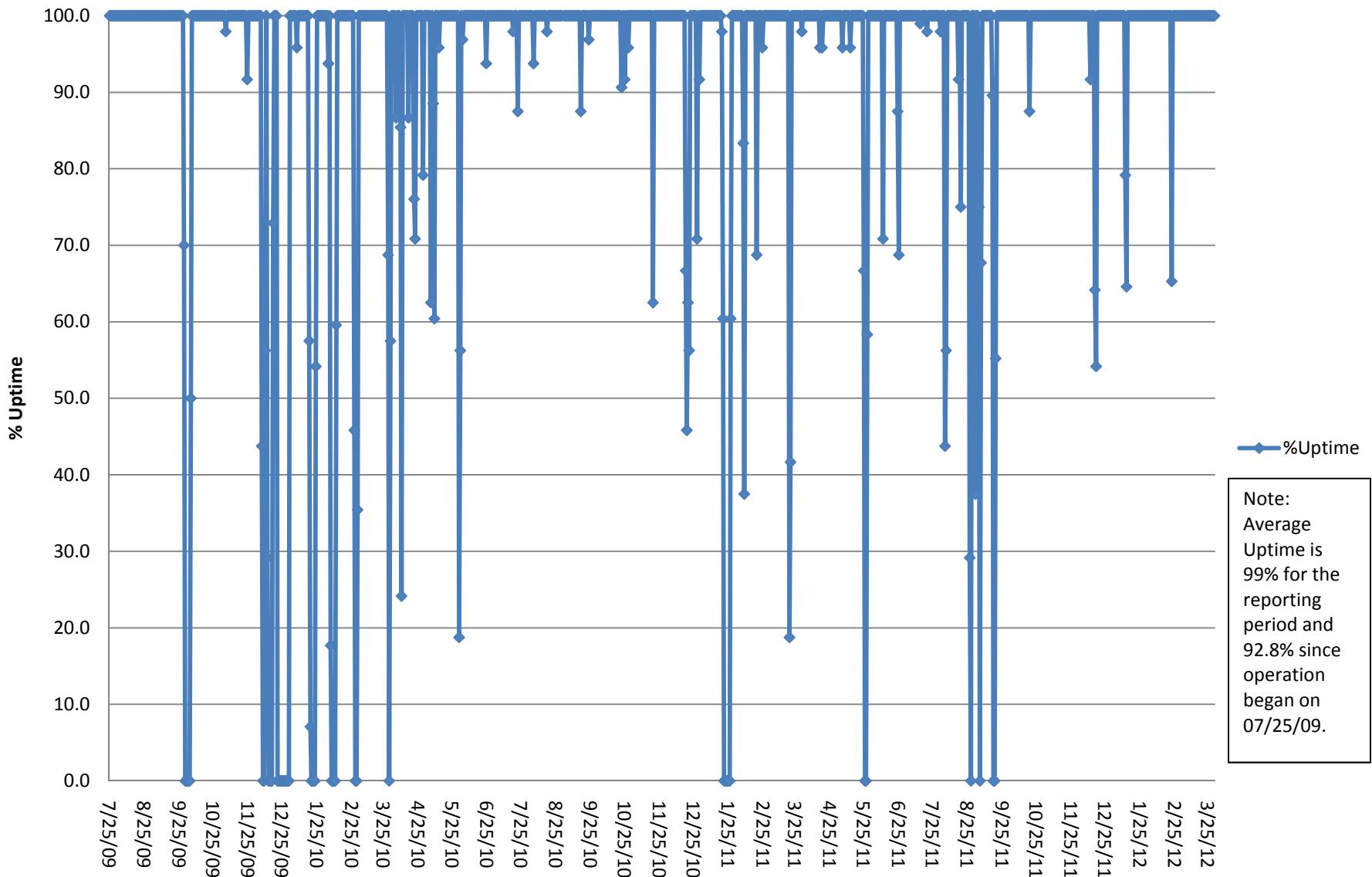


Figure A1-2
Omega Chemical Superfund Site
Groundwater Production

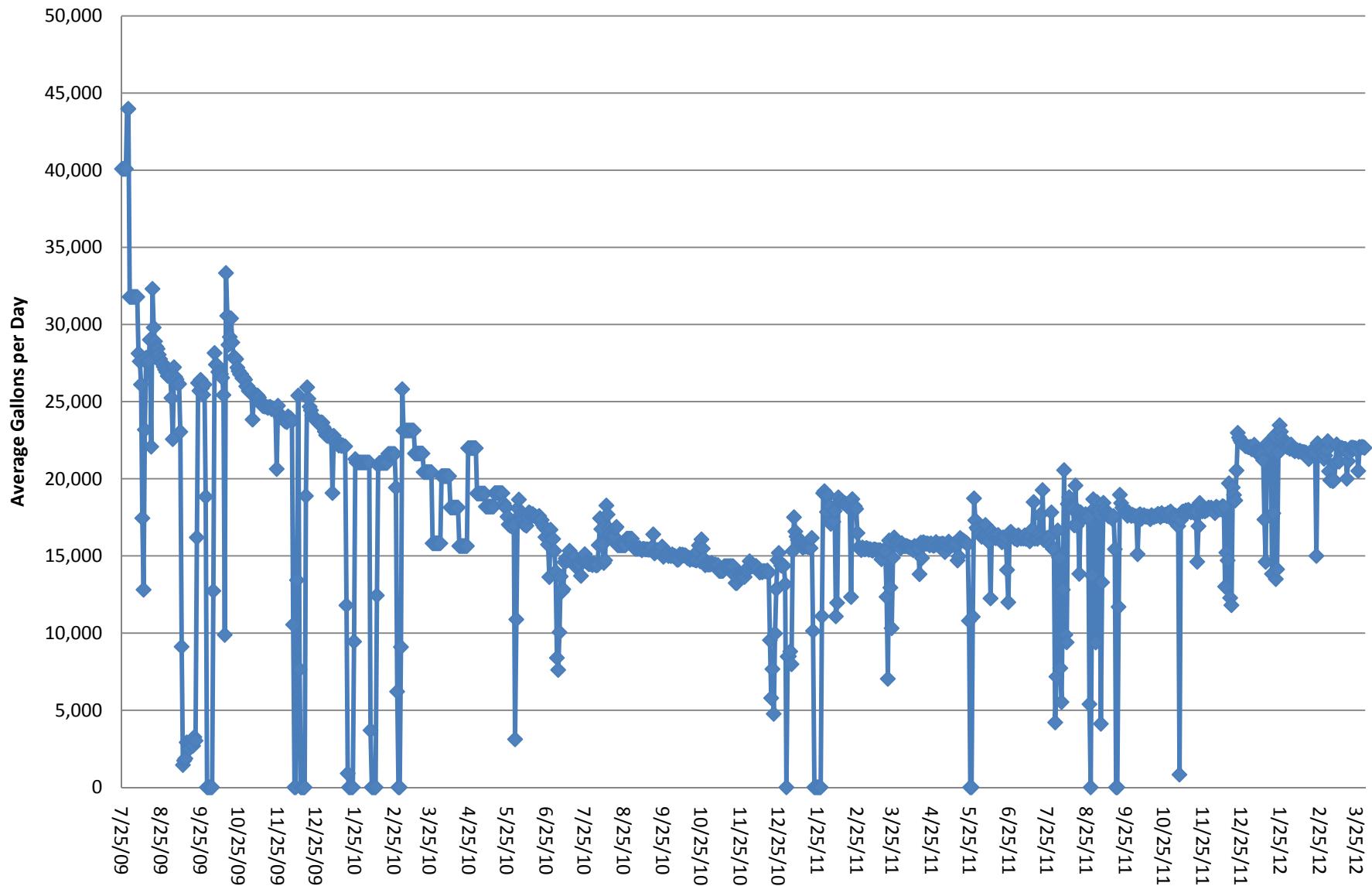


Figure A1-3
Omega Chemical Superfund Site
Individual Extraction Well Production

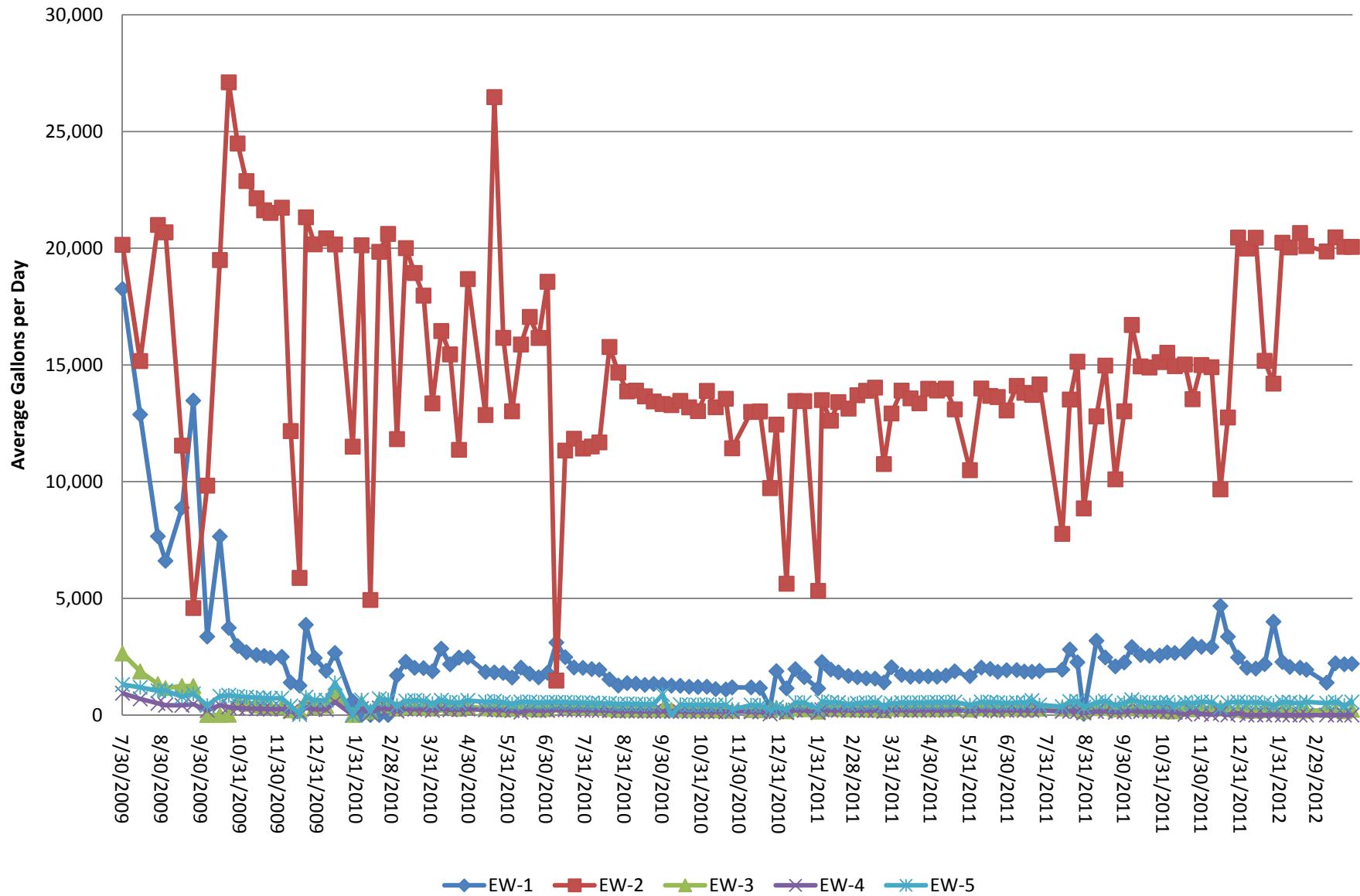


Figure A1-4
Omega Chemical Superfund Site
Combined Influent Groundwater Analytical Results
Total VOC and PCE (ug/L)

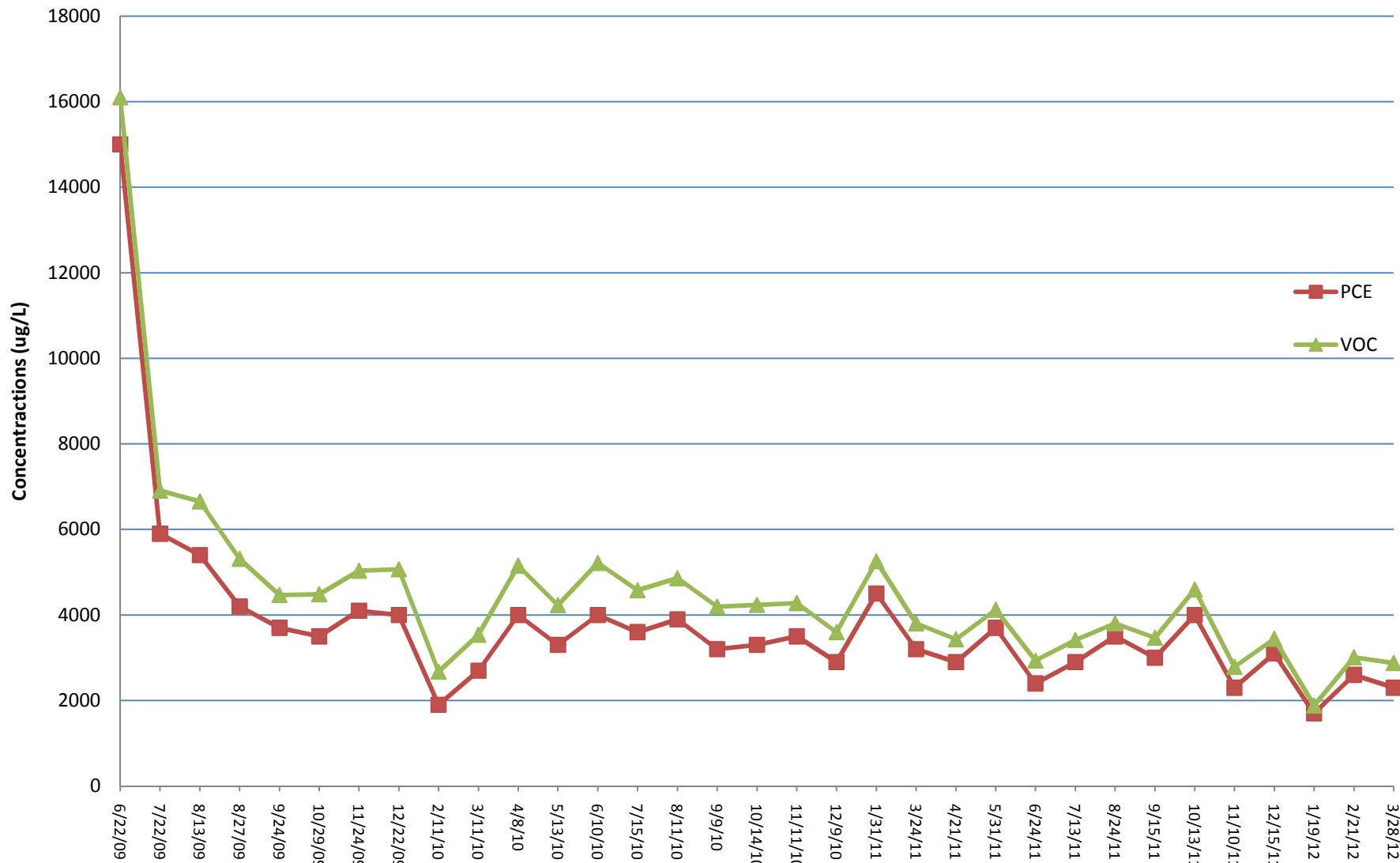


Figure A1-5
Omega Chemical Superfund Site
Vapor Influent Analytical Results
Total Volatile Organic Compounds (ppbv)

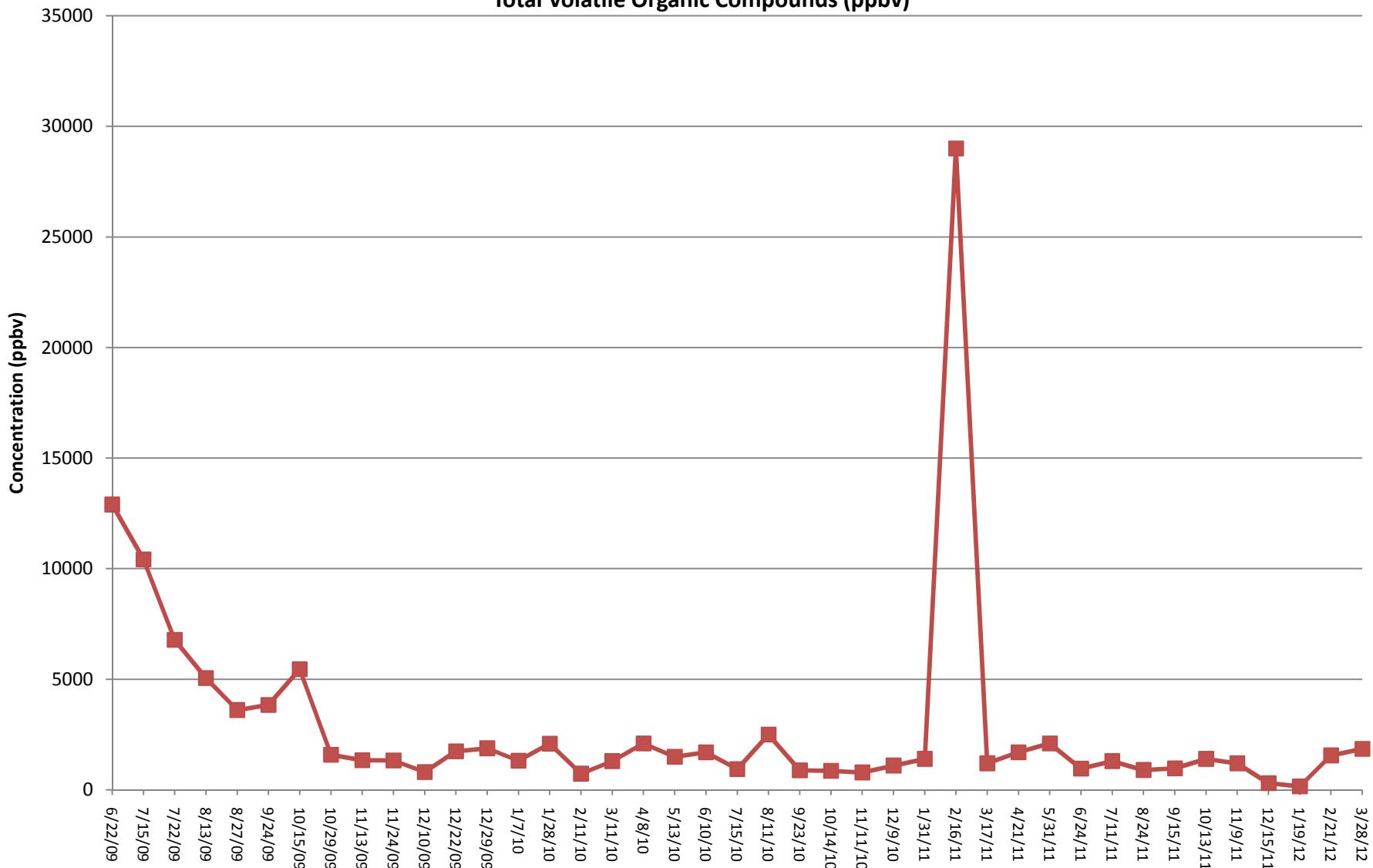


Figure A1-6
Omega Chemical Superfund Site
Cumulative VOC Mass Removed from Groundwater

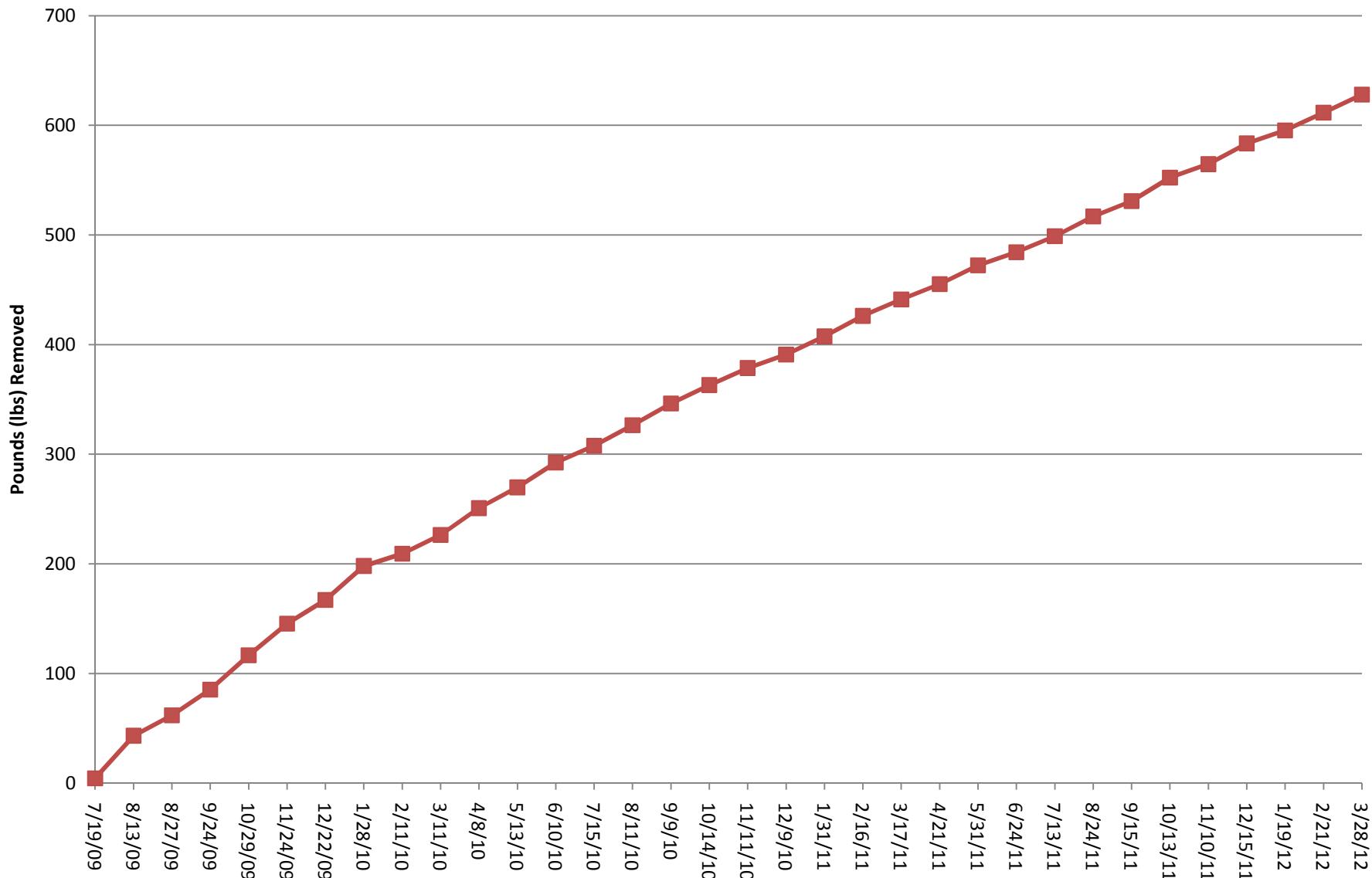


Table A1-1
Omega Chemical Superfund Site
Groundwater System Summary

Month of Operation	Total Groundwater Treated (Average gallons per month)	Average System Flow Rate (gallons per day)	Average System Flow Rate (gallons per minute)	Average System Uptime (%)	Approximate VOC Mass Removed (lbs)
July 2009	378,740	16,416	11.4	100%	40.0
August 2009	853,401	27,504	19.1	100%	22.0
September 2009	458,018	15,264	10.6	95.7%	24.0
October 2009	715,721	23,040	16.0	85.5%	31.0
November 2009	739,366	24,624	17.1	99.7%	29.0
December 2009	658,087	21,936	15.2	43.4%	21.6
January 2010	545,866	17,609	12.2	81.1%	30.9
February 2010	482,710	17,240	12.0	75.6%	11.1
March 2010	556,213	19,865	13.8	89.1%	17.1
April 2010	553,464	19,767	13.7	93.6%	24.5
May 2010	520,567	18,592	12.9	94.4%	18.9
June 2010	504,646	18,023	12.5	98.2%	22.6
July 2010	389,848	13,443	9.3	99.5%	15.4
August 2010	443,994	15,857	11.0	99.6%	18.6
September 2010	544,734	15,564	10.8	99.6%	19.8
October 2010	461,317	15,377	10.7	99.4%	16.8
November 2010	420,029	14,001	9.7	98.8%	15.6
December 2010	389,878	12,577	8.7	93.3%	12.3
January 2011	366,687	11,829	8.2	78.7%	16.6
February 2011	479,977	17,142	11.9	96.0%	18.7
March 2011	460,417	14,852	10.3	95.6%	15.0
April 2011	467,659	15,589	10.8	99.7%	14.0
May 2011	452,781	14,606	10.1	90.9%	17.1
June 2011	477,211	15,907	11.0	97.6%	12.0
July 2011	496,421	16,014	11.1	99.9%	14.7
August 2011	460,728	14,862	10.3	90.1%	18.0
September 2011	465,300	15,510	10.8	84.2%	13.9
October 2011	542,980	17,515	12.2	99.6%	21.4
November 2011	513,857	17,129	11.9	100.0%	12.4
December 2011	586,336	18,914	13.1	97.1%	18.9
January 2012	643,303	20,752	14.4	98.2%	11.9
February 2012	624,198	20,807	14.4	98.8%	16.2
March 2012	665,882	21,480	14.9	100.0%	16.5
Operation Average	524,859	17,564	12.2	92.8%	--
Operation Total	17,594,341	--	--	--	628.6

Notes:

- System began operation on 7/25/09.
- Total Groundwater Treated is tabulated using the data from the effluent flow meter. It measures the combined system flow rate processed through the plant in gallons over time (i.e., gallons per minute, gallons per day, gallons per month).
- Average System Flow Rate is collected from the effluent flow meter totalizer and calculated between the values at the beginning and ending of the month (gallons per month); then divided by number of monthly days; and divided by the number of daily hours. For example, assuming that monthly volume is 500,000 gallons: then 500,000 gallons/30 days = 16,667 gallons per day; and 16,667 gallons per day/1440 minutes = 11.6 gallons per minute.
- Operation Total is recorded from the effluent flow meter and does not equal to the sum of the monthly flow volume averages.
- System Uptime is calculated by averaging the daily percent runtime data over a period.
- VOC Mass Removed is calculated by converting the mass loading of system influent analytical concentrations (ug/L) multiplied by monthly flow (gallons). The formula used is as follows:

$$\text{Mass Removed (lb)} = (\text{Concentration (ug/L)} * \text{Monthly Flow (gallons)}) / (0.264 \text{ gallon/L} * 453.6 \times 10^6 \text{ ug/lb})$$

Table A1-2
 Omega Chemical Superfund Site
 Extraction Well Flow Summary

Date	Extraction Wells														
	EW-1			EW-2			EW-3			EW-4			EW-5		
	Totalizer (gal)	Q _{avg} (gpm)	Q _{avg} (gpd)	Totalizer (gal)	Q _{avg} (gpm)	Q _{avg} (gpd)	Totalizer (gal)	Q _{avg} (gpm)	Q _{avg} (gpd)	Totalizer (gal)	Q _{avg} (gpm)	Q _{avg} (gpd)	Totalizer (gal)	Q _{avg} (gpm)	Q _{avg} (gpd)
7/28/2009	136,365			108,625			36,266			5,451			6,992		
7/30/2009	176,426	12.7	18,256	152,837	14.0	20,147	42,059	1.8	2,640	7,509	0.7	938	9,860	0.9	1,307
8/13/2009	353,521	8.9	12,873	361,472	10.5	15,166	67,779	1.3	1,870	17,028	0.5	692	26,192	0.8	1,187
8/27/2009	461,672	5.3	7,656	658,096	14.6	20,998	86,520	0.9	1,327	24,095	0.3	500	40,931	0.7	1,043
9/2/2009	500,028	4.6	6,603	778,242	14.4	20,683	93,242	0.8	1,157	26,546	0.3	422	46,985	0.7	1,042
9/15/2009	618,604	6.2	8,884	932,309	8.0	11,543	109,850	0.9	1,244	32,121	0.3	418	57,525	0.5	790
9/24/2009	736,198	9.4	13,472	972,324	3.2	4,584	120,707	0.9	1,244	36,169	0.3	464	65,468	0.6	910
10/5/2009	773,897	2.3	3,360	1,082,631	6.8	9,830	120,707	0.0	0	38,317	0.1	191	70,093	0.3	412
10/15/2009	848,847	5.3	7,651	1,273,592	13.5	19,494	120,707	0.0	0	42,484	0.3	425	77,981	0.6	805
10/22/2009	874,953	2.6	3,734	1,463,138	18.8	27,108	120,793	0.0	12	44,865	0.2	341	83,907	0.6	847
10/29/2009	895,474	2.1	2,952	1,633,366	17.0	24,488	124,659	0.4	556	46,933	0.2	297	89,474	0.6	801
11/5/2009	914,285	1.9	2,690	1,793,357	15.9	22,879	127,988	0.3	476	48,916	0.2	284	94,840	0.5	767
11/13/2009	935,061	1.8	2,570	1,972,307	15.4	22,138	131,249	0.3	403	51,102	0.2	270	100,857	0.5	744
11/19/2009	950,381	1.8	2,527	2,103,418	15.0	21,627	133,521	0.3	375	52,697	0.2	263	105,216	0.5	719
11/24/2009	962,473	1.7	2,450	2,209,609	14.9	21,513	135,267	0.2	354	53,956	0.2	255	108,736	0.5	713
12/3/2009	983,800	1.7	2,490	2,395,744	15.1	21,735	138,379	0.3	363	56,174	0.2	259	114,955	0.5	726
12/10/2009	993,512	1.0	1,387	2,480,909	8.4	12,166	139,759	0.1	197	57,198	0.1	146	117,680	0.3	389
12/17/2009	1,002,321	0.9	1,258	2,522,028	4.1	5,874	141,084	0.1	189	57,913	0.1	102	117,850	0.0	24
12/22/2009	1,021,652	2.7	3,866	2,628,657	14.8	21,326	144,133	0.4	610	59,491	0.2	316	121,678	0.5	766
12/29/2009	1,038,765	1.7	2,445	2,769,825	14.0	20,167	146,594	0.2	352	61,236	0.2	249	126,150	0.4	639
1/7/2010	1,055,808	1.3	1,894	2,953,631	14.2	20,423	150,111	0.3	391	63,375	0.2	238	131,857	0.4	634
1/14/2010	1,074,422	1.8	2,659	3,094,775	14.0	20,163	156,488	0.6	911	67,318	0.4	563	141,521	1.0	1,381
1/28/2010	1,082,669	0.4	589	3,255,738	8.0	11,497	156,488	0.0	0	67,318	0.0	0	141,521	0.0	0
2/4/2010	1,082,671	0.0	0	3,396,611	14.0	20,125	160,036	0.4	507	69,292	0.2	282	146,030	0.4	644
2/11/2010	1,082,672	0.0	0	3,431,119	3.4	4,930	161,044	0.1	144	69,841	0.1	78	147,202	0.1	167
2/18/2010	1,082,672	0.0	0	3,570,053	13.8	19,848	165,239	0.4	599	71,978	0.2	305	152,107	0.5	701
2/25/2010	1,082,673	0.0	0	3,714,347	14.3	20,613	168,123	0.3	412	73,779	0.2	257	156,634	0.4	647
3/4/2010	1,094,533	1.2	1,694	3,797,093	8.2	11,821	170,041	0.2	274	74,946	0.1	167	159,471	0.3	405
3/11/2010	1,110,504	1.6	2,282	3,937,113	13.9	20,003	172,668	0.3	375	76,756	0.2	259	163,654	0.4	598
3/18/2010	1,124,641	1.4	2,020	4,069,673	13.2	18,937	174,930	0.2	323	78,478	0.2	246	168,066	0.4	630
3/25/2010	1,138,699	1.4	2,008	4,195,460	12.5	17,970	177,136	0.2	315	80,167	0.2	241	172,331	0.4	609
4/1/2010	1,151,795	1.3	1,871	4,288,927	9.3	13,352	179,104	0.2	281	81,565	0.1	200	175,787	0.3	494
4/8/2010	1,171,702	2.0	2,844	4,404,100	11.4	16,453	182,168	0.3	438	83,432	0.2	267	180,221	0.4	633
4/15/2010	1,186,923	1.5	2,174	4,512,250	10.7	15,450	184,470	0.2	329	85,014	0.2	226	184,067	0.4	549
4/22/2010	1,204,127	1.7	2,458	4,591,785	7.9	11,362	186,349	0.2	268	86,632	0.2	231	187,763	0.4	528
4/29/2010	1,221,415	1.7	2,470	4,722,530	13.0	18,678	188,965	0.3	374	88,418	0.2	255	192,142	0.4	626
5/13/2010	1,247,211	1.3	1,843	4,902,503	8.9	12,855	192,977	0.2	287	91,511	0.2	221	200,080	0.4	567
5/20/2010	1,259,972	1.3	1,823	5,087,812	18.4	26,473	194,867	0.2	270	93,095	0.2	226	204,224	0.4	592
5/27/2010	1,272,580	1.3	1,801	5,200,941	11.2	16,161	196,573	0.2	244	94,553	0.1	208	208,033	0.4	544
6/3/2010	1,283,820	1.1	1,606	5,292,042	9.0	13,014	198,391	0.2	260	95,875	0.1	189	211,373	0.3	477
6/10/2010	1,298,022	1.4	2,029	5,403,168	11.0	15,875	200,521	0.2	304	96,741	0.1	124	215,315	0.4	563
6/17/2010	1,310,377	1.2	1,765	5,522,559	11.8	17,056	202,317	0.2	257	98,217	0.1	211	219,225	0.4	559
6/24/2010	1,321,668	1.1	1,613	5,635,652	11.2	16,156	203,942	0.2	232	99,579	0.1	195	222,965	0.4	534
7/1/2010	1,334,319	1.3	1,807	5,765,588	12.9	18,562	205,777	0.2	262	100,981	0.1	200	226,794	0.4	547
7/8/2010	1,356,040	2.2	3,103	5,775,925	1.0	1,477	208,812	0.3	434	102,608	0.2	232	230,623	0.4	547
7/15/2010	1,373,385	1.7	2,478	5,855,242	7.9	11,331	211,462	0.3	379	104,170	0.2	223	234,443	0.4	546
7/22/2010	1,387,653	1.4	2,038	5,938,123	8.2	11,840	213,802	0.2	334	105,651	0.1	212	238,178	0.4	534
7/29/2010	1,401,805	1.4	2,022	6,018,065	7.9	11,420	216,149	0.2	335	107,107	0.1	208	241,864	0.4	527

Table A1-2
 Omega Chemical Superfund Site
 Extraction Well Flow Summary

Date	Extraction Wells														
	EW-1			EW-2			EW-3			EW-4			EW-5		
	Totalizer (gal)	Q _{avg} (gpm)	Q _{avg} (gpd)	Totalizer (gal)	Q _{avg} (gpm)	Q _{avg} (gpd)	Totalizer (gal)	Q _{avg} (gpm)	Q _{avg} (gpd)	Totalizer (gal)	Q _{avg} (gpm)	Q _{avg} (gpd)	Totalizer (gal)	Q _{avg} (gpm)	Q _{avg} (gpd)
8/5/2010	1,415,584	1.4	1,968	6,098,601	8.0	11,505	218,407	0.2	323	108,545	0.1	205	245,477	0.4	516
8/11/2010	1,427,203	1.3	1,937	6,168,688	8.1	11,681	220,307	0.2	317	109,739	0.1	199	248,485	0.3	501
8/19/2010	1,439,407	1.1	1,526	6,294,834	11.0	15,768	222,362	0.2	257	111,233	0.1	187	252,561	0.4	510
8/26/2010	1,448,248	0.9	1,263	6,397,539	10.2	14,672	223,895	0.2	219	112,381	0.1	164	255,813	0.3	465
9/2/2010	1,457,806	0.9	1,365	6,494,602	9.6	13,866	225,530	0.2	234	113,576	0.1	171	259,182	0.3	481
9/9/2010	1,467,211	0.9	1,344	6,591,911	9.7	13,901	227,114	0.2	226	114,740	0.1	166	262,479	0.3	471
9/16/2010	1,476,247	0.9	1,291	6,687,491	9.5	13,654	228,655	0.2	220	115,871	0.1	162	265,706	0.3	461
9/23/2010	1,485,573	0.9	1,332	6,781,531	9.3	13,434	230,267	0.2	230	117,010	0.1	163	268,959	0.3	465
9/30/2010	1,494,668	0.9	1,299	6,874,821	9.3	13,327	231,855	0.2	227	118,115	0.1	158	275,118	0.6	880
10/7/2010	1,503,465	0.9	1,257	6,967,757	9.2	13,277	233,416	0.2	223	119,202	0.1	155	274,897	0.0	-32
10/14/2010	1,512,215	0.9	1,250	7,061,977	9.3	13,460	234,968	0.2	222	120,283	0.1	154	278,022	0.3	446
10/21/2010	1,520,673	0.8	1,208	7,154,260	9.2	13,183	236,483	0.2	216	121,324	0.1	149	281,062	0.3	434
10/28/2010	1,529,082	0.8	1,201	7,245,414	9.0	13,022	238,003	0.2	217	122,355	0.1	147	284,111	0.3	436
11/4/2010	1,537,565	0.8	1,212	7,342,635	9.6	13,889	239,536	0.2	219	123,404	0.1	150	287,227	0.3	445
11/11/2010	1,545,330	0.8	1,109	7,434,939	9.2	13,186	240,932	0.1	199	124,376	0.1	139	290,168	0.3	420
11/19/2010	1,554,065	0.8	1,092	7,543,355	9.4	13,552	242,512	0.1	198	125,517	0.1	143	293,645	0.3	435
11/24/2010	1,559,987	0.8	1,184	7,600,499	7.9	11,429	243,451	0.1	188	126,238	0.1	144	294,799	0.2	231
12/9/2010	1,577,701	0.8	1,181	7,795,289	9.0	12,986	246,591	0.1	209	128,340	0.1	140	301,142	0.3	423
12/16/2010	1,585,822	0.8	1,160	7,886,338	9.0	13,007	248,003	0.1	202	129,298	0.1	137	304,047	0.3	415
12/24/2010	1,588,477	0.2	332	7,964,130	6.8	9,724	249,667	0.1	208	129,687	0.0	49	306,001	0.2	244
12/29/2010	1,597,868	1.3	1,878	8,026,352	8.6	12,444	251,108	0.2	288	130,428	0.1	148	307,663	0.2	332
1/6/2011	1,606,996	0.8	1,141	8,071,358	3.9	5,626	252,395	0.1	161	131,271	0.1	105	309,509	0.2	231
1/13/2011	1,620,746	1.4	1,964	8,165,555	9.3	13,457	254,336	0.2	277	132,743	0.1	210	313,239	0.4	533
1/20/2011	1,632,094	1.1	1,621	8,259,688	9.3	13,448	256,049	0.2	245	134,122	0.1	197	316,961	0.4	532
1/31/2011	1,644,650	0.8	1,141	8,318,220	3.7	5,321	257,609	0.1	142	135,231	0.1	101	319,719	0.2	251
2/3/2011	1,651,459	1.6	2,270	8,358,702	9.4	13,494	258,485	0.2	292	135,896	0.2	222	321,445	0.4	575
2/10/2011	1,665,077	1.4	1,945	8,446,980	8.8	12,611	260,345	0.2	266	137,330	0.1	205	325,210	0.4	538
2/16/2011	1,676,070	1.3	1,832	8,527,429	9.3	13,408	261,915	0.2	262	138,550	0.1	203	328,424	0.4	536
2/24/2011	1,689,459	1.2	1,674	8,632,466	9.1	13,130	263,877	0.2	245	140,126	0.1	197	332,111	0.3	461
3/3/2011	1,700,783	1.1	1,618	8,728,372	9.5	13,701	265,579	0.2	243	141,519	0.1	199	335,614	0.3	500
3/10/2011	1,711,763	1.1	1,569	8,825,638	9.6	13,895	267,220	0.2	234	142,888	0.1	196	339,323	0.4	530
3/17/2011	1,722,676	1.1	1,559	8,923,836	9.7	14,028	268,842	0.2	232	144,251	0.1	195	343,118	0.4	542
3/24/2011	1,732,445	1.0	1,396	8,999,113	7.5	10,754	270,269	0.1	204	145,357	0.1	158	345,928	0.3	401
3/30/2011	1,744,739	1.4	2,049	9,076,638	9.0	12,921	271,958	0.2	282	146,617	0.1	210	348,889	0.3	494
4/7/2011	1,758,473	1.2	1,717	9,187,839	9.7	13,900	274,069	0.2	264	148,261	0.1	206	353,154	0.4	533
4/14/2011	1,769,952	1.1	1,640	9,282,809	9.4	13,567	275,817	0.2	250	149,656	0.1	199	356,816	0.4	523
4/21/2011	1,781,537	1.1	1,655	9,376,296	9.3	13,355	277,627	0.2	258	151,058	0.1	200	360,544	0.4	533
4/28/2011	1,793,114	1.1	1,654	9,474,155	9.7	13,980	279,417	0.2	256	152,480	0.1	203	364,348	0.4	544
5/5/2011	1,804,587	1.1	1,639	9,571,468	9.7	13,902	281,187	0.2	253	153,890	0.1	201	368,167	0.4	546
5/12/2011	1,816,430	1.2	1,692	9,669,354	9.7	13,984	282,994	0.2	258	155,325	0.1	205	372,010	0.4	549
5/19/2011	1,829,526	1.3	1,871	9,761,028	9.1	13,096	284,933	0.2	277	156,805	0.1	211	375,918	0.4	558
5/31/2011	1,849,497	1.2	1,664	9,886,911	7.3	10,490	287,716	0.2	232	158,828	0.1	169	381,011	0.3	424
6/9/2011	1,867,761	1.4	2,029	10,012,833	9.7	13,991	290,264	0.2	283	160,559	0.1	192	386,052	0.4	560
6/16/2011	1,881,580	1.4	1,974	10,108,547	9.5	13,673	292,241	0.2	282	162,022	0.1	209	389,886	0.4	548
6/22/2011	1,892,688	1.3	1,851	10,190,285	9.5	13,623	293,838	0.2	266	163,087	0.1	178	393,098	0.4	535
6/29/2011	1,906,135	1.3	1,921	10,281,652	9.1	13,052	295,759	0.2	274	164,479	0.1	199	396,658	0.4	509

Table A1-2
 Omega Chemical Superfund Site
 Extraction Well Flow Summary

Date	Extraction Wells														
	EW-1			EW-2			EW-3			EW-4			EW-5		
	Totalizer (gal)	Q _{avg} (gpm)	Q _{avg} (gpd)												
7/7/2011	1,921,544	1.3	1,926	10,394,471	9.8	14,102	297,976	0.2	277	166,119	0.1	205	400,922	0.4	533
7/13/2011	1,932,714	1.3	1,862	10,477,310	9.6	13,807	299,579	0.2	267	167,313	0.1	199	404,094	0.4	529
7/19/2011	1,943,829	1.3	1,852	10,559,614	9.5	13,717	301,167	0.2	265	168,498	0.1	198	407,814	0.4	620
7/25/2011	1,955,158	1.3	1,888	10,644,596	9.8	14,164	302,800	0.2	272	169,717	0.1	203	410,399	0.3	431
8/12/2011	1,990,081	1.3	1,940	10,784,285	5.4	7,760	307,757	0.2	275	172,494	0.1	154	416,882	0.3	360
8/18/2011	2,006,930	2.0	2,808	10,865,395	9.4	13,518	309,536	0.2	297	173,480	0.1	164	420,358	0.4	579
8/24/2011	2,020,484	1.6	2,259	10,956,227	10.5	15,139	311,231	0.2	283	174,410	0.1	155	423,878	0.4	587
8/29/2011	2,020,734	0.0	50	11,000,497	6.1	8,854	312,022	0.1	158	174,863	0.1	90	425,578	0.2	340
9/8/2011	2,052,556	2.2	3,182	11,128,477	8.9	12,798	314,932	0.2	291	176,374	0.1	151	430,908	0.4	533
9/15/2011	2,069,799	1.7	2,463	11,233,285	10.4	14,973	317,007	0.2	297	177,504	0.1	161	435,069	0.4	595
9/23/2011	2,086,468	1.4	2,084	11,314,063	7.0	10,097	318,861	0.2	232	178,459	0.1	119	438,444	0.3	422
9/30/2011	2,102,222	1.6	2,251	11,405,156	9.0	13,013	320,780	0.2	274	179,445	0.1	141	442,067	0.4	518
10/6/2011	2,119,682	2.0	2,910	11,505,426	11.6	16,712	322,799	0.2	336	180,539	0.1	182	446,005	0.5	656
10/13/2011	2,137,688	1.8	2,572	11,609,989	10.4	14,938	324,669	0.2	267	181,619	0.1	154	449,848	0.4	549
10/20/2011	2,155,453	1.8	2,538	11,714,214	10.3	14,889	326,382	0.2	245	182,656	0.1	148	453,521	0.4	525
10/28/2011	2,175,814	1.8	2,545	11,835,182	10.5	15,121	328,331	0.2	244	183,819	0.1	145	457,713	0.4	524
11/3/2011	2,191,893	1.9	2,680	11,928,316	10.8	15,522	329,280	0.1	158	184,721	0.1	150	460,981	0.4	545
11/9/2011	2,207,830	1.8	2,656	12,017,994	10.4	14,946	330,200	0.1	153	185,439	0.1	120	463,591	0.3	435
11/17/2011	2,229,398	1.9	2,696	12,138,151	10.4	15,020	332,292	0.2	262	185,673	0.0	29	467,918	0.4	541
11/23/2011	2,247,581	2.1	3,030	12,219,353	9.4	13,534	333,771	0.2	247	186,489	0.1	136	470,910	0.3	499
11/30/2011	2,268,023	2.0	2,920	12,324,321	10.4	14,995	335,680	0.2	273	186,829	0.0	49	474,889	0.4	569
12/8/2011	2,291,288	2.0	2,908	12,443,548	10.3	14,903	337,825	0.2	268	186,974	0.0	18	479,294	0.4	551
12/15/2011	2,323,990	3.2	4,672	12,511,233	6.7	9,669	339,882	0.2	294	187,506	0.1	76	481,545	0.2	322
12/21/2011	2,344,110	2.3	3,353	12,587,717	8.9	12,747	341,539	0.2	276	187,547	0.0	7	484,713	0.4	528
12/29/2011	2,363,833	1.7	2,465	12,751,369	14.2	20,456	343,310	0.2	221	188,117	0.0	71	489,262	0.4	569
1/5/2012	2,377,993	1.4	2,023	12,891,260	13.9	19,985	344,570	0.1	180	188,117	0.0	0	492,965	0.4	529
1/12/2012	2,391,905	1.4	1,988	13,034,418	14.2	20,451	345,815	0.1	178	188,120	0.0	0	496,780	0.4	545
1/19/2012	2,407,179	1.5	2,182	13,140,643	10.5	15,175	347,264	0.1	207	188,120	0.0	0	500,353	0.4	510
1/26/2012	2,435,153	2.8	3,996	13,240,031	9.9	14,198	349,061	0.2	257	188,256	0.0	20	503,272	0.3	417
2/2/2012	2,451,052	1.6	2,271	13,381,711	14.1	20,240	350,545	0.1	212	188,256	0.0	0	507,144	0.4	553
2/8/2012	2,463,404	1.4	2,059	13,501,931	13.9	20,037	351,721	0.1	196	188,256	0.0	0	510,390	0.4	541
2/16/2012	2,479,617	1.4	2,027	13,667,137	14.3	20,651	353,292	0.1	196	188,256	0.0	0	514,367	0.3	497
2/21/2012	2,489,307	1.3	1,938	13,767,614	14.0	20,095	354,225	0.1	187	188,256	0.0	0	517,182	0.4	563
3/8/2012	2,511,443	1.0	1,383	14,085,394	13.8	19,861	357,603	0.1	211	188,278	0.0	1	525,280	0.4	506
3/15/2012	2,526,966	1.5	2,218	14,228,650	14.2	20,465	359,129	0.2	218	188,278	0.0	0	529,187	0.4	558
3/22/2012	2,542,188	1.5	2,175	14,369,071	13.9	20,060	360,226	0.1	157	188,278	0.0	0	532,063	0.3	411
3/28/2012	2,555,339	1.5	2,192	14,489,412	13.9	20,057	361,578	0.2	225	188,278	0.0	0	535,390	0.4	555

Table A1-2
 Omega Chemical Superfund Site
 Extraction Well Flow Summary

Month	Extraction Wells														
	EW-1			EW-2			EW-3			EW-4			EW-5		
	Volume (gal)	Q _{avg} (gpm)	Q _{avg} (gpd)	Volume (gal)	Q _{avg} (gpm)	Q _{avg} (gpd)	Volume (gal)	Q _{avg} (gpm)	Q _{avg} (gpd)	Volume (gal)	Q _{avg} (gpm)	Q _{avg} (gpd)	Volume (gal)	Q _{avg} (gpm)	Q _{avg} (gpd)
Aug 2009	325,307	8.7	2,292	549,471	14.6	19,892	50,254	1.3	341	18,644	0.5	240	33,939	0.9	661
Sep 2009	274,526	7.3	1,946	314,228	8.4	15,904	34,187	0.9	285	12,074	0.3	197	24,537	0.7	492
Nov 2009	66,999	1.8	2,062	576,243	15.3	15,196	10,608	0.3	307	7,023	0.2	197	19,262	0.5	476
Dec 2009	76,292	1.5	2,207	560,216	11.3	16,208	11,327	0.2	328	7,280	0.1	211	17,414	0.3	504
Jan 2010	43,904	1.0	1,463	485,913	11.2	16,197	9,894	0.2	330	6,082	0.1	203	15,371	0.4	512
Feb 2010	4	0.0	0	458,609	11.4	16,379	11,635	0.3	416	6,461	0.2	231	15,113	0.4	540
Mar 2010	56,026	1.4	2,001	481,113	11.9	17,183	9,013	0.2	322	6,388	0.2	228	15,697	0.4	561
Apr 2010	82,716	1.6	2,363	527,070	10.5	15,059	11,829	0.2	338	8,251	0.2	236	19,811	0.4	566
May 2010	51,165	1.3	1,827	478,411	11.9	17,086	7,608	0.2	272	6,135	0.2	219	15,891	0.4	568
Jun 2010	49,088	1.2	1,753	434,711	10.8	15,525	5,551	0.1	198	3,704	0.1	132	11,592	0.3	414
Jul 2010	67,486	1.7	2,410	252,477	6.3	9,017	10,372	0.3	370	6,126	0.2	219	15,070	0.4	538
Aug 2010	46,443	1.2	1,659	379,474	9.4	13,553	7,746	0.2	277	5,274	0.1	188	13,949	0.3	498
Sep 2010	46,420	0.9	1,326	477,282	9.5	13,637	7,960	0.2	227	5,734	0.1	164	19,305	0.4	552
Oct 2010	34,414	0.9	1,229	370,593	9.2	13,235	6,148	0.2	220	4,240	0.1	151	8,993	0.2	321
Nov 2010	30,905	0.8	1,145	355,085	9.1	13,151	5,448	0.1	202	3,883	0.1	144	10,688	0.3	396
Dec 2010	37,881	0.8	1,082	425,853	8.4	12,167	7,657	0.2	219	4,190	0.1	120	12,864	0.3	368
Jan 2011	46,782	1.0	1,418	291,868	6.1	8,844	6,501	0.1	197	4,803	0.1	146	12,056	0.3	365
Feb 2011	44,809	1.3	1,867	314,246	9.1	13,094	6,269	0.2	261	4,894	0.1	204	12,393	0.4	516
Mar 2011	55,280	1.1	1,626	444,172	9.1	13,064	8,081	0.2	238	6,492	0.1	191	16,778	0.3	493
Apr 2011	48,376	1.2	1,668	397,517	9.5	13,707	7,459	0.2	257	5,863	0.1	202	15,460	0.4	533
May 2011	56,383	1.2	1,709	412,756	8.7	12,508	8,299	0.2	251	6,348	0.1	192	16,663	0.4	505
Jun 2011	56,638	1.4	1,953	394,741	9.5	13,612	8,043	0.2	277	5,651	0.1	195	15,647	0.4	540
Jul 2011	49,022	1.3	1,885	362,945	9.7	13,959	7,041	0.2	271	5,237	0.1	201	13,741	0.4	528
Aug 2011	65,576	1.3	1,874	355,901	7.1	10,169	9,222	0.2	263	5,146	0.1	147	15,179	0.3	434
Sep 2011	81,489	1.8	2,547	404,659	8.8	12,646	8,758	0.2	274	4,582	0.1	143	16,489	0.4	515
Oct 2011	73,592	1.8	2,628	430,026	10.7	15,358	7,550	0.2	270	4,374	0.1	156	15,645	0.4	559
Nov 2011	92,209	1.9	2,794	489,139	10.3	14,822	7,349	0.2	223	3,010	0.1	91	17,177	0.4	521
Dec 2011	95,810	2.3	3,304	427,048	10.2	14,726	7,630	0.2	263	1,287	0.0	44	14,373	0.3	496
Jan 2012	71,319	1.8	2,547	488,662	12.1	17,452	5,751	0.1	205	140	0.0	5	14,010	0.3	500
Feb 2012	54,155	1.4	2,083	527,584	14.1	20,292	5,164	0.1	199	0	0.0	0	13,909	0.4	535
Mar 2012	66,032	1.3	1,834	721,798	13.9	20,050	7,353	0.1	204	21	0.0	1	18,209	0.4	506
Cumulative	2,418,974	1.7	2,485	14,380,787	10.3	14,771	325,312	0.2	334	182,827	0.1	188	528,398	0.4	543

Notes:

Q (avg) is the average pumping rate based on well production in gpm and gpd

Table A1-3
Omega Chemical Superfund Site
Groundwater Influent and Effluent Analytical Summary

Well ID	Sample Date	Sample Type	Total VOCs	PCE	TCE	1,1,1-TCA	1,1,2-TCA	1,1-DCA	1,1-DCE	1,2-DCA	1,4-Dioxane	Acetone	Benzene	c-1,2-DCE	Chloroform	Freon 113	t-1,2-DCE	Freon 11
SP-200	22-Jun-09	IN	16100	15000	440	250 U	250 U	250 U	400	120 U	280	--	120 U	250 U	260	--	250 U	250 U
SP-220A	22-Jun-09	EFF	0.0	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	250	--	0.5 U	1 U	1 U	--	1 U	1 U
SP-220A	15-Jul-09	EFF	35	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	210	35	0.5 U	1 U	1 U	5 U	1 U	1 U
SP-200	22-Jul-09	IN	6905	5900	230	20 U	20 U	20 U	250	14	97	200 U	10 U	20 U	180	250	20 U	81
SP-220A	22-Jul-09	EFF	0.0	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	110	10 U	0.5 U	1 U	1 U	5 U	1 U	1 U
SP-200	13-Aug-09	IN	6652	5400	230	20 U	20 U	20 U	220	32	230	200 U	10 U	20 U	130	520	20 U	120
SP-220A	13-Aug-09	EFF	0.0	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	220	10 U	0.5 U	1 U	1 U	5 U	1 U	1 U
SP-200	27-Aug-09	IN	5310	4200	190	50 U	50 U	50 U	300	25 U	94	500 U	25 U	50 U	110	400	50 U	110
SP-220A	27-Aug-09	EFF	0.0	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	84	10 U	0.5 U	1 U	1 U	5 U	1 U	1 U
SP-210	24-Sep-09	IN	4464	3700	130	3.6	2.7	5.6	130	23	120	10 U	0.66	1	80	290	5.9	92
SP-220A	24-Sep-09	EFF	0.0	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	150	10 U	0.5 U	1 U	1 U	5 U	1 U	1 U
SP-200	29-Oct-09	IN	4483	3500	150	50 U	50 U	50 U	220	25 U	--	500 U	25 U	50 U	73	450	50 U	90
SP-220A	29-Oct-09	EFF	0.0	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	73	10 U	0.5 U	1 U	1 U	5 U	1 U	1 U
SP-210	24-Nov-09	IN	5035	4100	160	10 U	10 U	10 U	250	17	94	100 U	5 U	10 U	69	340	10 U	99
SP-220A	24-Nov-09	EFF	0.0	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	56	10 U	0.5 U	1 U	1 U	5 U	1 U	1 U
SP-210	22-Dec-09	IN	5066	4000	140	40 U	40 U	40 U	270	20 U	65	400 U	20 U	40 U	76	470	40 U	110
SP-220A	22-Dec-09	EFF	0.0	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	94	10 U	0.5 U	1 U	1 U	5 U	1 U	1 U
SP-210	11-Feb-10	IN	2671	1900	100	20 U	20 U	20 U	200	10 U	23	200 U	10 U	20 U	35	360	20 U	76
SP-220A	11-Feb-10	EFF	0.0	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	24	10 U	0.5 U	1 U	1 U	5 U	1 U	1 U
SP-210	11-Mar-10	IN	3536	2700	110	50 U	50 U	50 U	210	25 U	--	500 U	25 U	50 U	50	370	50 U	96
SP-220A	11-Mar-10	EFF	0.0	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	71	10 U	0.5 U	1 U	1 U	5 U	1 U	1 U
SP-210	8-Apr-10	IN	5150	4000	150	50 U	50 U	50 U	260	25 U	--	500 U	25 U	50 U	80	540	50 U	120
SP-220A	22-Apr-10	EFF	0.0	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	55	10 U	0.5 U	1 U	1 U	5 U	1 U	1 U
SP-210	13-May-10	IN	4231	3300	120	10 U	10 U	10 U	180	10	--	100 U	5 U	10 U	48	480	10 U	93
SP-220A	13-May-10	EFF	0.0	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	58	10 U	0.5 U	1 U	1 U	5 U	1 U	1 U
SP-210	10-Jun-10	IN	5214	4000	170	20 U	20 U	20 U	280	17	--	200 U	10 U	20 U	77	550	20 U	120
SP-220A	10-Jun-10	EFF	0.0	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	76	10 U	0.5 U	1 U	1 U	5 U	1 U	1 U
SP-210	15-Jul-10	IN	4575	3600	110	3.7 J	10 U	10 U	180	11	--	100 U	5 U	10 U	52	520	3.2 J	95
SP-220A	15-Jul-10	EFF	0.0	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	85	10 U	0.5 U	1 U	1 U	5 U	1 U	1 U
SP-210	11-Aug-10	IN	4858	3900	120	50 U	50 U	50 U	200	25 U	--	500 U	25 U	50 U	68	460	50 U	110
SP-220A	11-Aug-10	EFF	0.0	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	70	10 U	0.5 U	1 U	1 U	5 U	1 U	1 U
SP-210	09-Sep-10	IN	4193	3200	130	40 U	40 U	40 U	240	20 U	--	400 U	20 U	40 U	63	450	40 U	110
SP-220B	09-Sep-10	EFF	0.0	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	70	10 U	0.5 U	1 U	1 U	5 U	1 U	1 U
SP-210	14-Oct-10	IN	4237	3330	130	10 U	10 U	10 U	230	14	--	100 U	5 U	10 U	69	370	10 U	94
SP-220B	14-Oct-10	EFF	0.0	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	68	10 U	0.5 U	1 U	1 U	5 U	1 U	1 U
SP-210	11-Nov-10	IN	4277	3500	110	50 U	50 U	50 U	170	25 U	--	500 U	25 U	50 U	65	340	50 U	92
SP-220B	11-Nov-10	EFF	0.0	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	69	10 U	0.5 U	1 U	1 U	5 U	1 U	1 U
SP-210	09-Dec-10	IN	3596	2900	110	50 U	50 U	50 U	200	25 U	--	500 U	25 U	50 U	50 U	310	50 U	76
SP-220B	09-Dec-10	EFF	0.0	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	50	10 U	0.5 U	1 U	1 U	5 U	1 U	1 U
SP-210	31-Jan-11	IN	5256	4500	140	40 U	40 U	40 U	160	20 U	--	400 U	20 U	40 U	66	320	40 U	70
SP-220B	31-Jan-11	EFF	0.0	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	61	10 U	0.5 U	1 U	1 U	5 U	1 U	1 U
SP-210	24-Mar-11	IN	3802	3200	120	7.1	10 U	10 U	160	11	--	100 U	5 U	10 U	52	190	10 U	62
SP-220B	24-Mar-11	EFF	0.0	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	48	10 U	0.5 U	1 U	1 U	5 U	1 U	1 U

Table A1-3
Omega Chemical Superfund Site
Groundwater Influent and Effluent Analytical Summary

Well ID	Sample Date	Sample Type	Total VOCs	PCE	TCE	1,1,1-TCA	1,1,2-TCA	1,1-DCA	1,1-DCE	1,2-DCA	1,4-Dioxane	Acetone	Benzene	c-1,2-DCE	Chloroform	Freon 113	t-1,2-DCE	Freon 11
SP-210	21-Apr-11	IN	3431	2900	98	20 U	20 U	20 U	170	10 U	--	200 U	10 U	20 U	42	160	20 U	61
SP-220B	21-Apr-11	EFF	0.0	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	84	10 U	0.5 U	1 U	1 U	5 U	1 U	1 U
SP-210	31-May-11	IN	4120	3700	110	50 U	50 U	50 U	180	25 U	--	500 U	25 U	50 U	70	250 U	50 U	60
SP-220B	31-May-11	EFF	0.0	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	57	10 U	0.5 U	1 U	1 U	5 U	1 U	1 U
SP-210	24-Jun-11	IN	2911	2400	88	4.4	1 U	2.3	140	7.4	--	10 U	0.5 U	1 U	39	170	2	58
SP-220B	24-Jun-11	EFF	0.0	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	52	10 U	0.5 U	1 U	1 U	5 U	1 U	1 U
SP-210	13-Jul-11	IN	3412	2900	99	20 U	20 U	20 U	140	10 U	--	200 U	10 U	20 U	43	180	20 U	50
SP-220B	13-Jul-11	EFF	0.0	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	63	10 U	0.5 U	1 U	1 U	5 U	1 U	1 U
SP-210	24-Aug-11	IN	3800	3500	120	100 U	100 U	100 U	180	50 U	--	1000 U	50 U	100 U	100 U	500 U	100 U	100 U
SP-220B	24-Aug-11	EFF	0.0	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	64 J	10 U	0.5 U	1 U	1 U	5 U	1 U	1 U
SP-210	15-Sep-11	IN	3466	3000	95	10 U	10 U	10 U	130	5.9	--	100 U	5 U	10 U	41	140	10 U	54
SP-220B	15-Sep-11	EFF	0.0	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	65	10 U	0.5 U	1 U	1 U	5 U	1 U	1 U
SP-210	13-Oct-11	IN	4594	4000	120	10 U	10 U	10 U	180	6.7	--	100 U	5 U	10 U	47	190	10 U	50
SP-220B	13-Oct-11	EFF	0.0	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	51	10 U	0.5 U	1 U	1 U	5 U	1 U	1 U
SP-210	09-Nov-11	IN	2786	2300	82	10 U	10 U	10 U	160	5.1	--	100 U	5 U	10 U	37	160	10 U	42
SP-220B	09-Nov-11	EFF	0.0	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	51	10 U	0.5 U	1 U	1 U	5 U	1 U	1 U
SP-210	10-Dec-11	IN	3444	3100	100	50 U	50 U	50 U	140	25 U	--	500 U	25 U	50 U	52	250 U	50 U	52
SP-220B	10-Dec-11	EFF	0.0	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	56	10 U	0.5 U	1 U	1 U	5 U	1 U	1 U
SP-210	19-Jan-12	IN	1881	1700	60	40 U	40 U	40 U	72	20 U	--	400 U	20 U	40 U	40 U	200 U	40 U	49
SP-220B	19-Jan-12	EFF	0.0	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	19	10 U	0.5 U	1 U	1 U	5 U	1 U	1 U
SP-210	21-Feb-12	IN	3011	2600	110	3.9	1.2	3.1	150	10	--	10 U	0.5 U	1 U	67	5 U	1.9	64
SP-220B	21-Feb-12	EFF	0.0	1 U	1 U	1 U	1 U	1 U	1 U	1 U	50	10 U	0.5 U	1 U	1 U	5 U	1 U	1 U
SP-210	28-Mar-12	IN	2875	2300	97	10 U	10 U	10 U	150	12	--	100 U	5 U	10 U	76	170	10 U	70
SP-220B	28-Mar-12	EFF	0.0	1 U	1 U	1 U	1 U	1 U	1 U	1 U	44	10 U	0.5 U	1 U	1 U	5 U	1 U	1 U

Notes:

All results are in micrograms per liter (ug/L)

Only results detected at least once in one sample are presented on this table

IN = Influent

EFF = Effluent

U = not detected above reporting limit listed

--" = Not Analyzed

PCE = Tetrachloroethene; TCE = Trichloroethene; TCA = Trichloroethane; DCE = Dichloroethene; DCA = Dichloroethane; Freon 113 = 1,1,2-Trichloro-1,2,2-trifluoroethane; Freon 11 = Trichlorofluoromethane.

Table A1-4
Omega Chemical Superfund Site
Vapor Phase GAC Analytical Results

Well ID	Sample Date	Sample Type	PCE	TCE	1,1,2-TCA	1,1-DCA	1,2-DCA	Benzene	Chloroform	Methylene Chloride	Total VOCs
SP-241	22-Jun-09	IN	12000	440	60 U	60 U	72	19 J	340	29	13000
SP-245	22-Jun-09	INT	360	14	2 U	0.82 J	2.3	0.57 J	11	1.2 J	390
SP-242	22-Jun-09	EFF	0.46 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.46 J
SP-241	15-Jul-09	IN	9400	480	58 U	19 J	57 J	11 J	300	150	10000
SP-245	15-Jul-09	INT	0.99 J	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.99 J
SP-242	15-Jul-09	EFF	15	0.63 J	2 U	2 U	2 U	0.46 J	0.68 J	0.56 J	17 J
SP-241	22-Jul-09	IN	6000	430	40 U	16 J	26 J	40 U	290	19	6800
SP-245	22-Jul-09	INT	1.6 J	2 U	2 U	2 U	2 U	1.4 J	2 U	2 U	3 J
SP-242	22-Jul-09	EFF	23	1.3 J	2 U	2 U	2 U	0.63 J	1.8 J	1.2 J	29 J
SP-241	13-Aug-09	IN	4500	270	29 U	9.6 J	54	29 U	180	44	5100
SP-245	13-Aug-09	INT	0.42 J	2.1 U	2.1 U	2.1 U	2.1 U	0.51 J	2.1 U	98	99
SP-242	13-Aug-09	EFF	5.3	2.1 U	2.1 U	2.1 U	2.1 U	0.39 J	0.21 J	2.1 U	5.9
SP-241	27-Aug-09	IN	3200	210	2.6	8.2	35	2.5	140	11	3600
SP-245	27-Aug-09	INT	1.1 J	2 U	2 U	2 U	2 U	0.68 J	2 U	58	1.8 J
SP-242	27-Aug-09	EFF	6.9	2 U	2 U	2 U	2 U	0.54 J	0.17 J	8.5	16
SP-241	29-Dec-09	IN	1700	120	10 U	10 U	11	3.8 J	45	10 U	1800
SP-245	29-Dec-09	INT	9.5	1.9 U	1.9 U	1.7 J	1.9 U	0.86 J	9.3	1 J	22
SP-242	29-Dec-09	EFF	12	0.52 J	1.9 U	1.9 U	1.9 U	0.77 J	0.27 J	1.9 U	14
SP-241	07-Jan-10	IN	1200	81	9.9 U	9.9 U	8.2 J	2.1 J	30	9.9 U	1300
SP-245	07-Jan-10	INT	7.2	2 U	2 U	1.9 J	2 U	2 U	7.4	0.92 J	17
SP-242	07-Jan-10	EFF	1.4 J	2 U	2 U	2 U	2 U	0.52 J	2 U	2 U	1.9 J
SP-241	28-Jan-10	IN	1900	110	13 U	4.1 J	16	2.9 J	57	13 U	2200
SP-245	28-Jan-10	INT	11	1.9 U	1.9 U	4.1	1.9 U	0.41 J	17	1.9 U	33
SP-242	28-Jan-10	EFF	1.3 J	2.1 U	2.1 U	2.1 U	2.1 U	0.39 J	2.1 U	1.5 J	3.2
SP-241	11-Feb-10	IN	670	39	2.9 U	1.5 J	5.3	0.71 J	17	2.9 U	730
SP-245	11-Feb-10	INT	7.2	2 U	2 U	5.4	2 U	2 U	21	1.1 J	35
SP-242	11-Feb-10	EFF	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
SP-241	11-Mar-10	IN	1200	61	9.9 U	2.4 J	7.5 J	9.9 U	35	9.9 U	1300
SP-245	11-Mar-10	INT	13	2 U	2 U	6.1	0.74 J	2 U	30	2 U	50
SP-242	11-Mar-10	EFF	2 U	2 U	2 U	2 U	2 U	2 U	0.91 J	0.91 J	0.91 J
SP-241	08-Apr-10	IN	2100	110	20 U	3.5 J	18 J	20 U	67	20 U	2300
SP-245	08-Apr-10	INT	7.8	2 U	2 U	7.1	1.1 J	2 U	49	2 U	65
SP-242	08-Apr-10	EFF	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
SP-241	13-May-10	IN	1400	71	8.1 U	2.6 J	11	2.2 J	42	8.1 U	1500
SP-245	13-May-10	INT	6.1	2 U	2 U	7.7	1.4 J	0.52 J	81	2 U	97
SP-242	13-May-10	EFF	2 U	2 U	2 U	0.92 J	2 U	0.48 J	0.60 J	2 U	2
SP-241	10-Jun-10	IN	1600	84	10 U	2.6 J	13	1.5 J	48	10 U	1700
SP-245	10-Jun-10	INT	4.5	2 U	2 U	6.5	2.3	2 U	84	2 U	97
SP-242	10-Jun-10	EFF	2 U	2 U	2 U	1.4 J	2 U	2 U	0.87 J	2 U	2.3
SP-241	08-Jul-10	IN	860	46	5.1 U	1.8 J	7.2	1.0 J	25	5.1 U	940
SP-245	08-Jul-10	INT	5.1	2 U	2 U	6	3.5	0.21 J	79	2 U	94
SP-242	08-Jul-10	EFF	1.8 J	2.1 U	2.1 U	2.5	2.1 U	0.19 J	2.2	2.1 U	6.7
SP-241	11-Aug-10	IN	2300	130	9.9 U	5.4 J	21	2.6 J	84	9.9 U	2500
SP-245	11-Aug-10	INT	5.5	2 U	2 U	6.0	9.1	0.17 J	88	2 U	110
SP-242	11-Aug-10	EFF	2 U	2 U	2 U	5.2	2 U	2 U	7.5	2 U	13
SP-241	23-Sep-10	IN	810	39	5 U	1.5 J	5.5	1.6 J	25	5 U	880
SP-245	23-Sep-10	INT	1.9 U	1.9 U	1.9 U	4.6	1.9 U	0.42 J	13	1.9 U	18
SP-242	23-Sep-10	EFF	2 U	2 U	2 U	2 U	2 U	0.66 J	2 U	2 U	0.66 J
SP-241	14-Oct-10	IN	790	40	3.4 U	1.6 J	4.5	1.2 J	20	0.75 J	860
SP-245	14-Oct-10	INT	0.29 J	1.9 U	1.9 U	3.7	1.9 U	0.45 J	11	0.51 J	16
SP-242	14-Oct-10	EFF	2 U	2 U	2 U	2 U	2 U	0.69 J	2 U	2 U	0.69 J
SP-241	11-Nov-10	IN	720	36	4.0 U	1.4 J	5.6	0.60 J	22	4 U	790
SP-245	11-Nov-10	INT	0.21 J	1.9 U	1.9 U	3.5	1.9 U	1.9 U	16	1.9 U	20
SP-242	11-Nov-10	EFF	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.41 J	0.41 J
SP-241	09-Dec-10	IN	990	68	7.8 U	7.8 U	6 J	2.2 J	26	1.5 J	1100
SP-245	09-Dec-10	INT	1.9 U	1.9 U	1.9 U	5.2	1.9 U	1.9 U	29	1.9 U	34
SP-242	09-Dec-10	EFF	2 U	2 U	2 U	2 U	2 U	0.22 J	0.29 J	0.70 J	1.2 J

Table A1-4
Omega Chemical Superfund Site
Vapor Phase GAC Analytical Results

Well ID	Sample Date	Sample Type	PCE	TCE	1,1,2-TCA	1,1-DCA	1,2-DCA	Benzene	Chloroform	Methylene Chloride	Total VOCs
SP-241	31-Jan-11	IN	1300	67	7.1 J	2.7 J	8.4	2.8 J	38	1.5 J	1400
SP-245	31-Jan-11	INT	1.6 U	1.6 U	1.6 U	5.4	1.6 U	0.41 J	36	0.93 J	43
SP-242	31-Jan-11	EFF	1.7 U	1.7 U	1.7 U	1.2 J	1.7 U	0.50 J	1 J	0.69 J	3.4
SP-241	16-Feb-11	IN	28000	670	130 U	23 J	130 U	28 J	240	130 U	29000
SP-245	16-Feb-11	INT	1.5 J	4.2 U	4.2 U	5.3	4.2 U	1.1 J	5.5	30	48
SP-242	16-Feb-11	EFF	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	0.52 J	1.7 U	1.7 U	0.52 J
SP-241	17-Mar-11	IN	1100	56	5.1 U	2.5 J	7	1.8 J	39	5.1 U	1200
SP-245	17-Mar-11	INT	1.7 U	1.7 U	1.7 U	5.1	1.7 U	0.29 J	49	1.7 U	54
SP-242	17-Mar-11	EFF	0.85 J	1.7 U	1.7 U	4.4	1.7 U	0.32 J	5.8	1.7 U	11
SP-241	21-Apr-11	IN	1600	69	8.5 U	2.6 J	8.6	1.9 J	44	8.5 U	1700
SP-245	21-Apr-11	INT	1.7 U	1.7 U	1.7 U	4.3	1.7 U	0.56 J	46	1.7 U	52
SP-242	21-Apr-11	EFF	0.84 J	1.7 U	1.7 U	4.1	1.7 U	0.44 J	8.0	1.7 U	13
SP-241	31-May-11	IN	1900	95	18 U	18 U	9.4 J	18 U	47	18 U	2100
SP-245	31-May-11	INT	0.29 J	1.7 U	1.7 U	4.3	1.7 U	1.7 U	53	1.7 U	58
SP-242	31-May-11	EFF	0.60 J	1.7 U	1.7 U	5.0	1.7 U	1.7 U	17	1.7 U	23
SP-241	24-Jun-11	IN	880	43	3.9 U	2.2 J	5.2	1.7 J	29	3.9 U	960
SP-245	24-Jun-11	INT	33	0.59 J	1.9 U	2.6	1.9 U	0.60 J	11	1.9 U	48
SP-242	24-Jun-11	EFF	66	1.3 J	2.0 U	2.0 U	2.0 U	0.87 J	0.40 J	2.0 U	69
SP-241	11-Jul-11	IN	1200	58	6.7 U	2.8 J	6.9	2.7 J	42	6.7 U	1300
SP-245	11-Jul-11	INT	0.89 J	1.7 U	1.7 U	2.6	1.7 U	0.53 J	11	1.7 U	15
SP-242	11-Jul-11	EFF	4.2	1.7 U	1.7 U	1.7 U	1.7 U	0.77 J	1.7 U	1.7 U	5.4
SP-241	24-Aug-11	IN	800	51	3.4 U	2.5 J	6.6	1.4 J	39	3.4 U	900
SP-245	24-Aug-11	INT	1.8 U	1.8 U	1.8 U	2.4	1.8 U	1.8 U	13	1.8 U	15
SP-242	24-Aug-11	EFF	2.7	1.7 U	1.7 U	1.7 U	1.7 U	0.35 J	1.7 U	1.7 U	3.1
SP-241	15-Sep-11	IN	890	38	4.5 U	2.2 J	5.4	1.4 J	33	4.5 U	970
SP-245	15-Sep-11	INT	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.2	2.2
SP-242	15-Sep-11	EFF	14	2.0 U	2.0 U	2.0 U	2.0 U	0.4 J	2.0 U	2.0 U	15
SP-241	13-Oct-11	IN	1300	65	6.4 U	2.7 J	9.7	3.9 J	44	6.4 U	1400
SP-245	13-Oct-11	INT	1.5 J	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.5 J
SP-242	13-Oct-11	EFF	5.0	1.7 U	1.7 U	1.7 U	1.7 U	0.79 J	1.7 U	1.7 U	5.8
SP-241	09-Nov-11	IN	1100	52	5.1 U	2.4 J	6.4	1.9 J	39	5.1 U	1200
SP-245	09-Nov-11	INT	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	0.53 J	1.7 U	1.7 U	0.53 J
SP-242	09-Nov-11	EFF	3.3	1.8 U	1.8 U	1.8 U	1.8 U	0.92 J	1.8 U	1.8 U	4.2
SP-241	15-Dec-11	IN	270	15	1.7 U	0.76 J	1.7	0.79 J	10	1.7 U	300
SP-245	15-Dec-11	INT	0.23 J	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	0.23 J
SP-242	15-Dec-11	EFF	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
SP-241	19-Jan-12	IN	140	14	1.7 U	1.7 U	1.7 U	0.93 J	1.4 J	0.46 J	160
SP-245	19-Jan-12	INT	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	0.73 J	0.31 J	1.7 U	1.0 J
SP-242	19-Jan-12	EFF	0.68 J	1.7 U	1.7 U	1.7 U	1.7 U	0.37 J	1.7 U	1.7 U	1.1 J
SP-241	21-Feb-12	IN	1400	87	5 U	5 U	10	5 U	60	50 U	1557
SP-245	21-Feb-12	INT	0.5 U	0.50 U	0.50 U	0.58	0.50 U	0.50 U	2.2	5.0 U	2.8
SP-242	21-Feb-12	EFF	2.3	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U	2.3
SP-241	28-Mar-12	IN	1700	85	2.5 U	3.6	10	2.5 U	58	25 U	1857
SP-245	28-Mar-12	INT	2.0	0.50 U	0.50 U	1.5	0.50 U	0.50 U	9.1	5.0 U	12.6
SP-242	28-Mar-12	EFF	6.9	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U	6.9

Notes:

All results are in parts per billion volume (ppbv)

Only results detected at least once in one sample are presented on this table except naphthalene which was detected at 4.4 J ppbv in the intermediate sample in January 2011, at 0.86 J ppbv in the intermediate sample in April 2011, and at 0.97 J ppbv in the effluent sample in September 2011.

IN = Influent

INT = Intermediate samples

EFF = Effluent

J = Result is detected as an estimated value above the laboratory method detection limit, but below the reporting limit

U = not detected above reporting limit listed

PCE = Tetrachloroethene; TCE = Trichloroethene; TCA = Trichloroethane; DCA = Dichloroethane.

Attachment 2

**Groundwater Elevation Summary Tables,
Hydrographs, and Groundwater Elevation
Contour Map**

Figure A2-1
Omega Chemical Superfund Site
A-Zone Observation Well Hydrographs
2009 to 2012

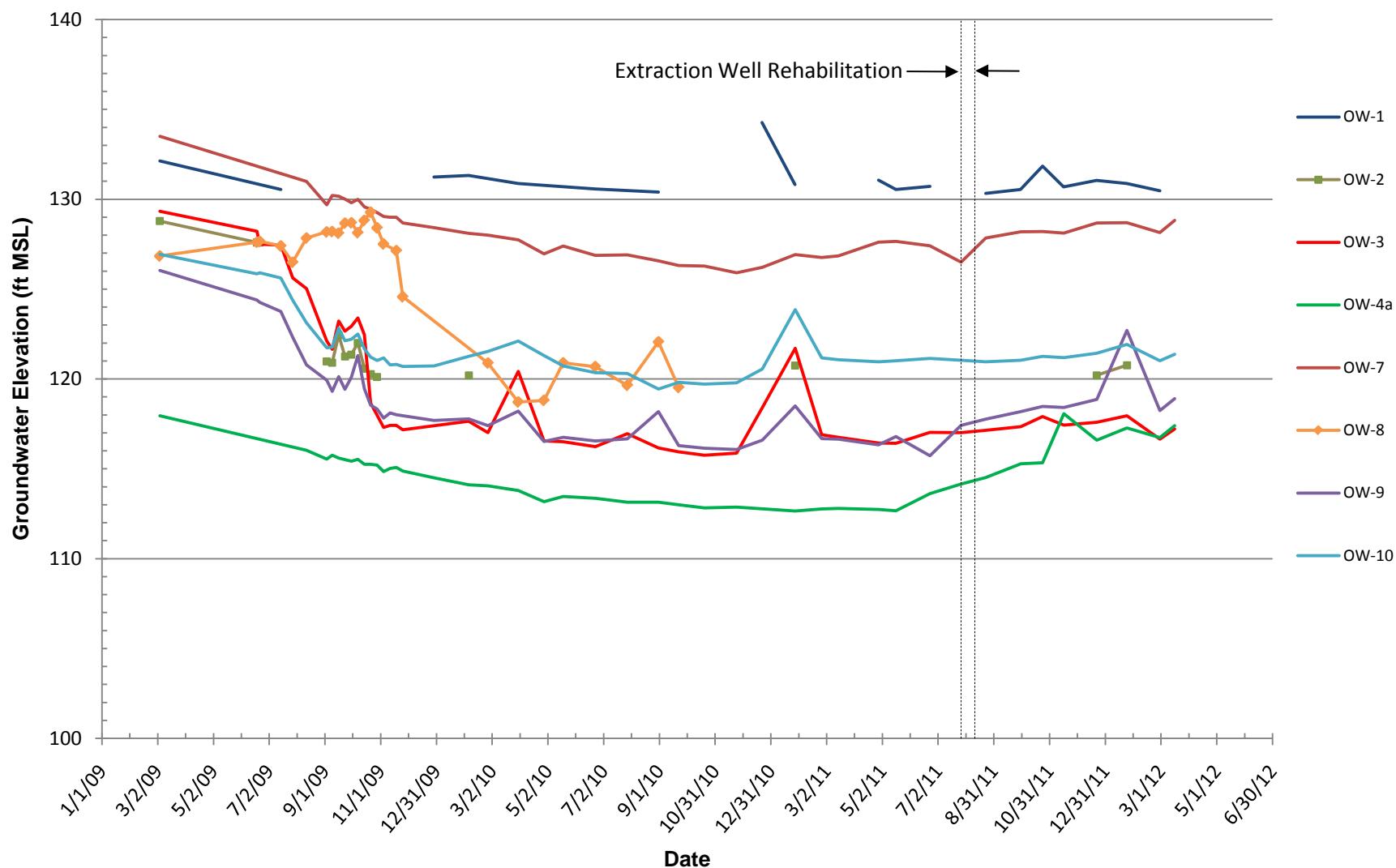


Figure A2-2
Omega Chemical Superfund Site
B-Zone Observation Well Hydrographs
2009 to 2012

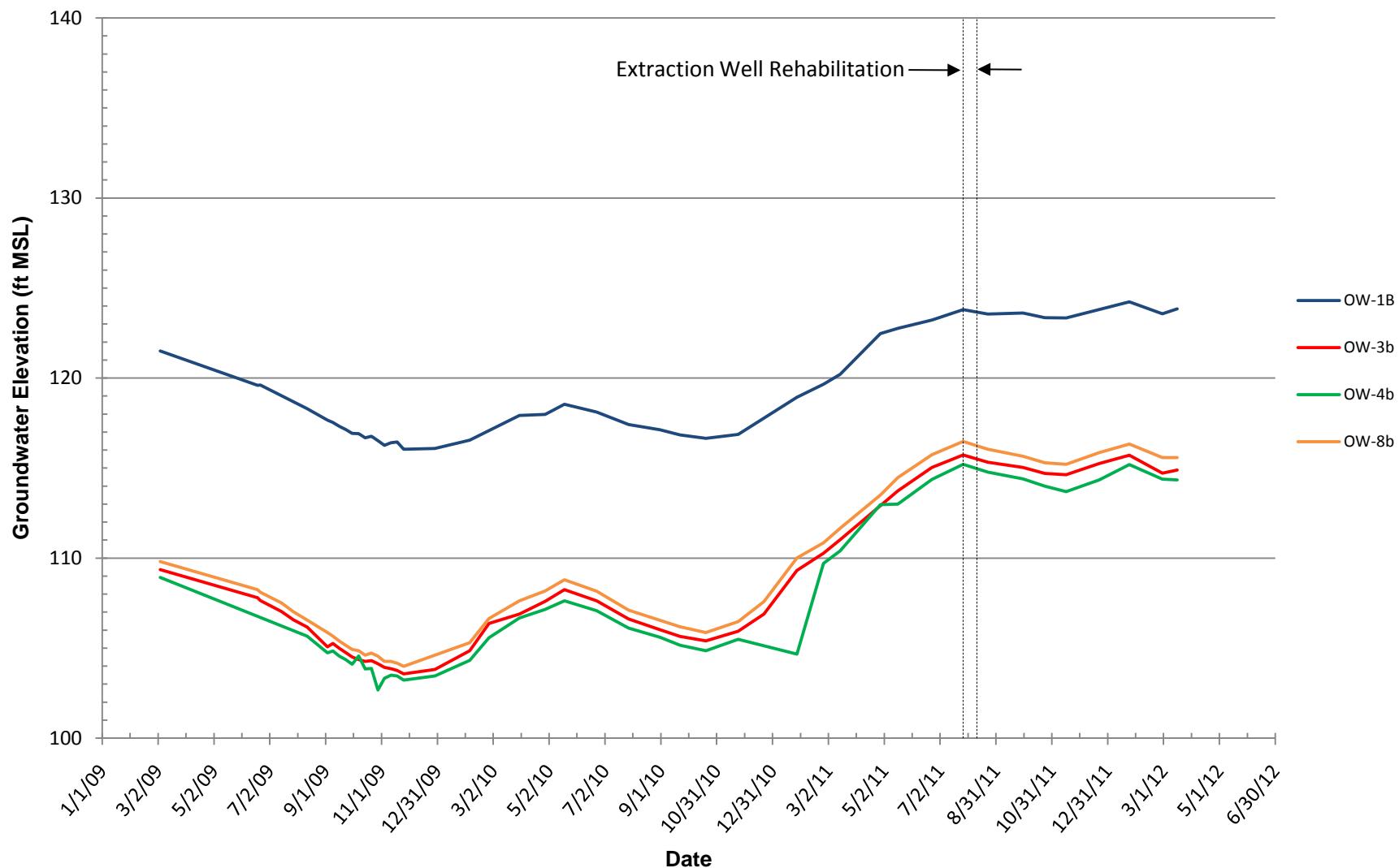


Figure A2-3
Omega Chemical Superfund Site
Piezometer Hydrographs
2009 to 2012

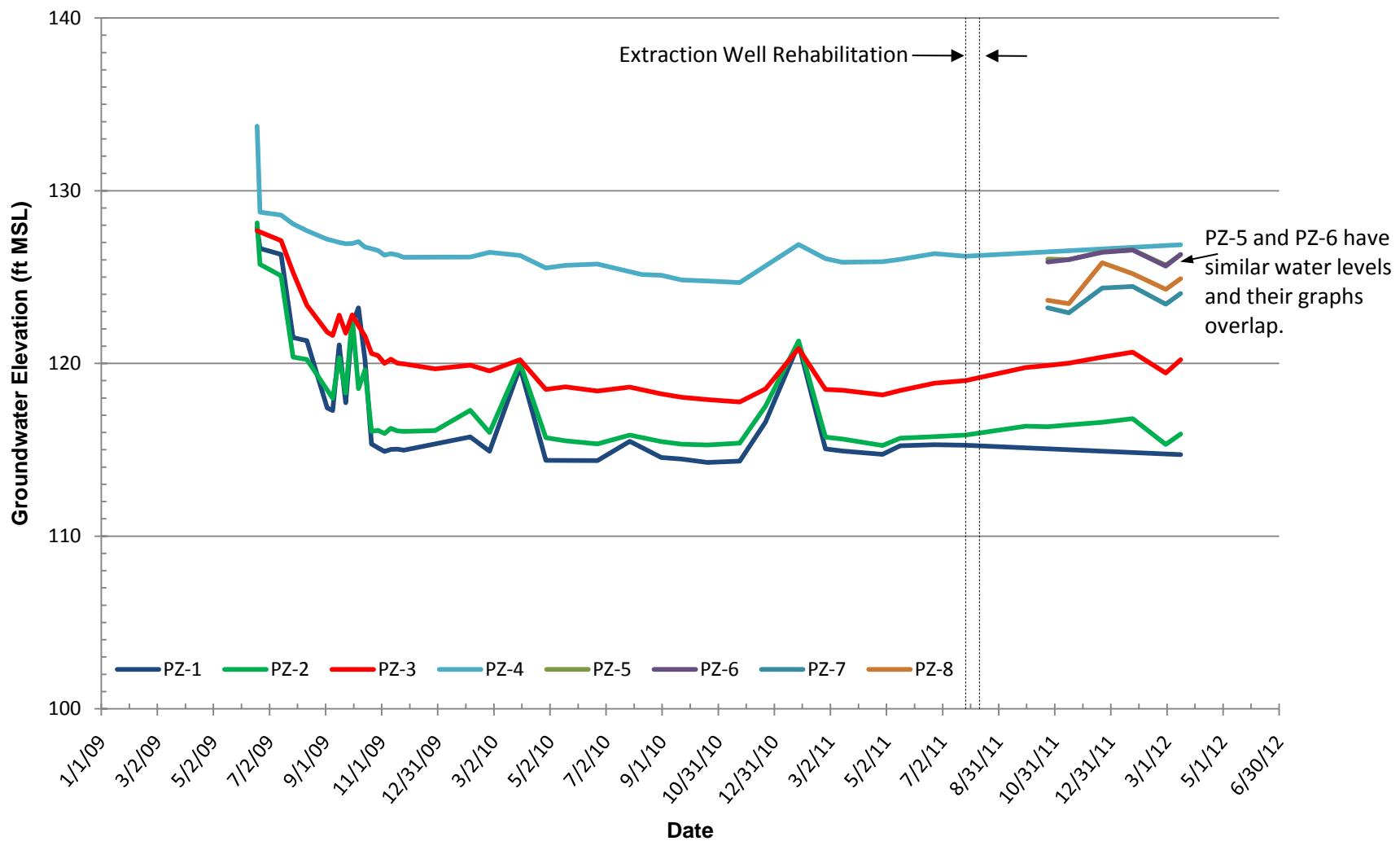
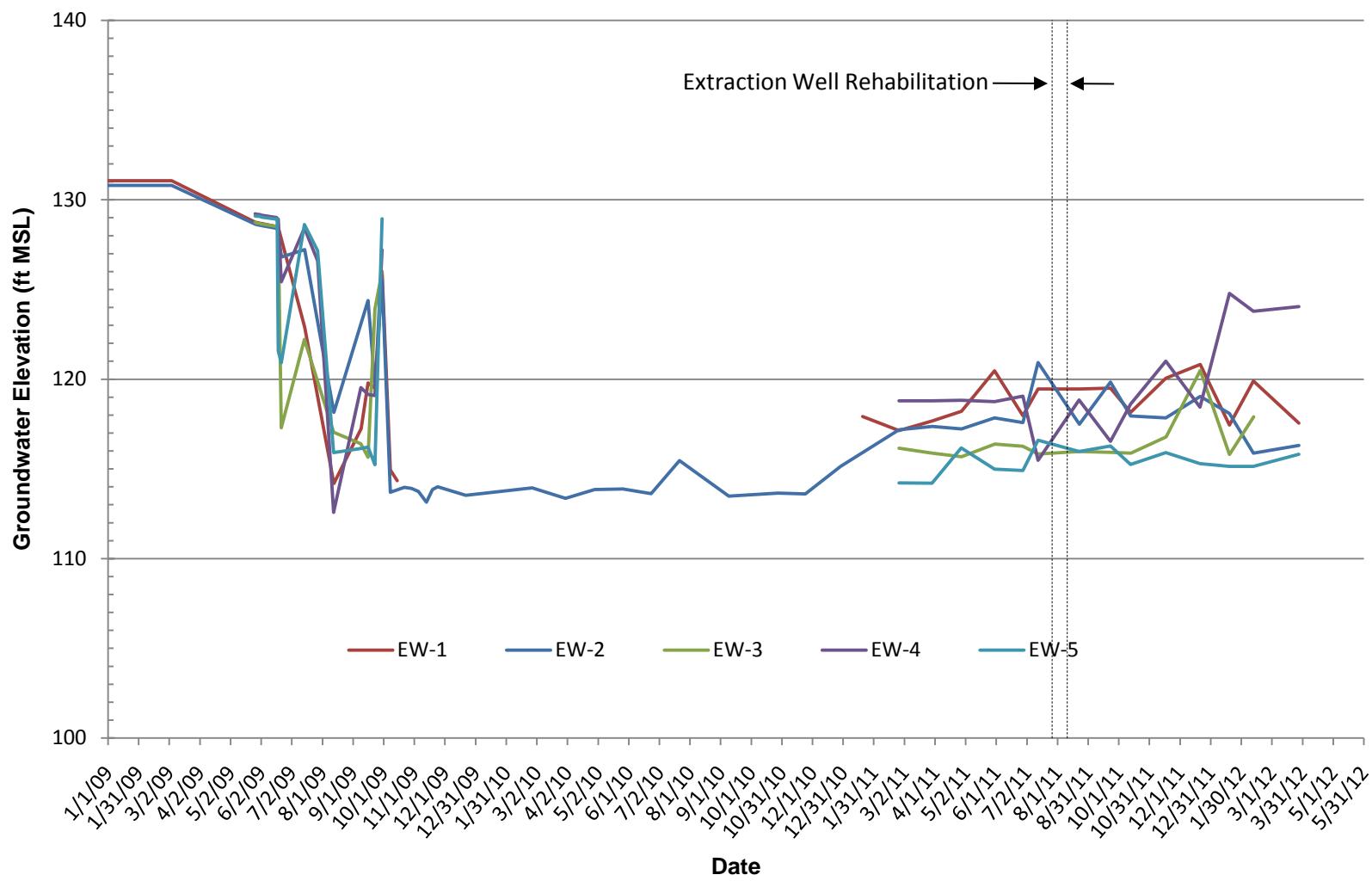
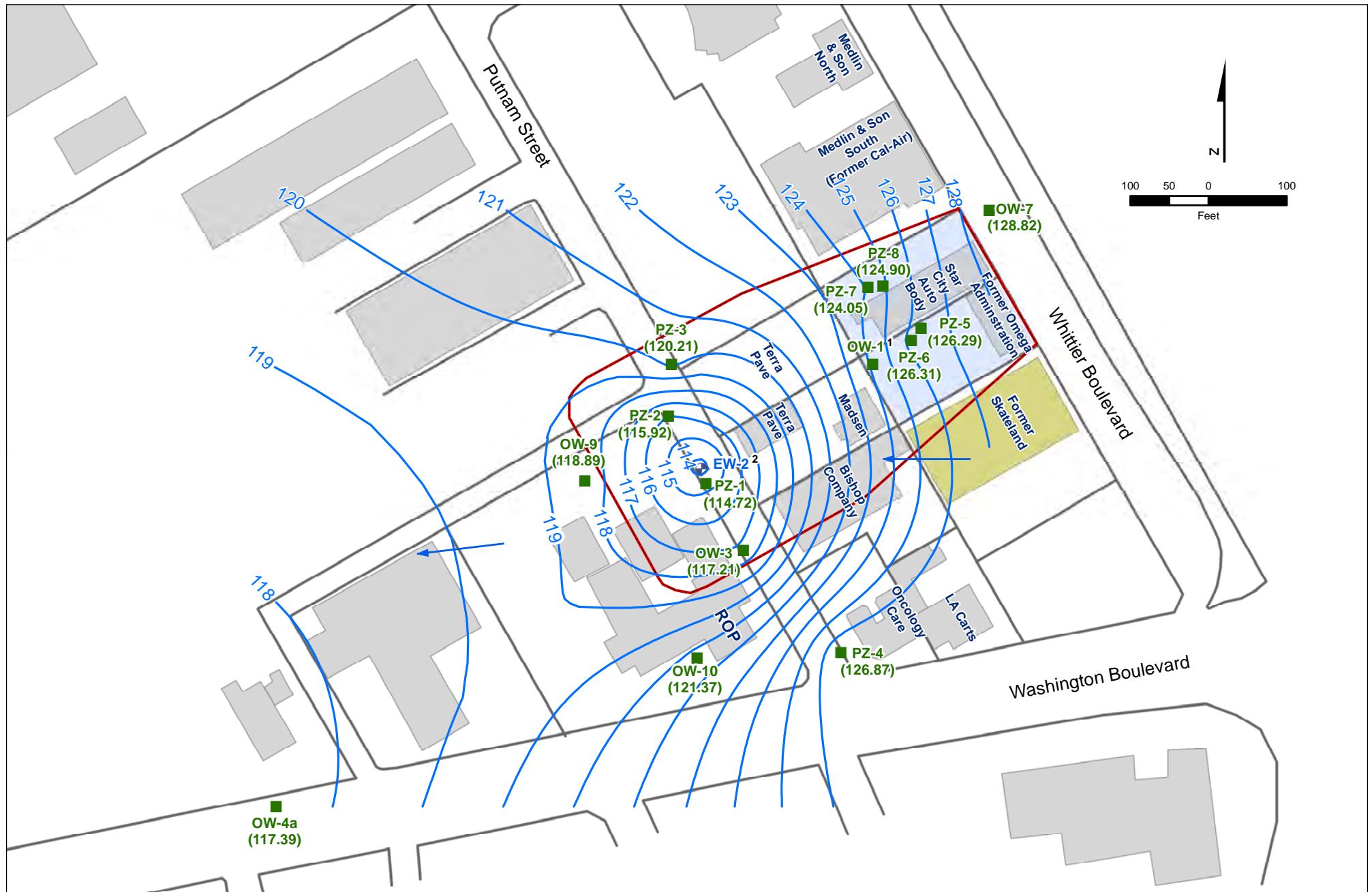


Figure A2-4
Omega Chemical Superfund Site
Extraction Well Hydrographs
2009 to 2012





1. Not used in groundwater contouring.
2. The historical low pumping water level was used for contouring the center of the cone of depression around EW-2.

Table A2-1
Omega Chemical Superfund Site
Summary of Groundwater Elevations

Well No.	Top of Casing Elevation ¹ (feet MSL ²)	Screen Interval (feet bgs ³)	Date	Depth to Water (feet btoc ⁴)	Groundwater Elevation (feet MSL ²)
EW-1	200.25	72 - 87	12/21/11	79.43	120.82
			1/19/12	82.80	117.45
			2/21/12	80.35	119.90
			3/28/12	82.70	117.55
EW-2	199.00	72 - 87	12/21/11	79.96	119.04
			1/19/12	80.91	118.09
			2/21/12	83.12	115.88
			3/28/12	82.69	116.31
EW-3	198.00	70 - 85	12/21/11	77.53	120.47
			1/19/12	82.20	115.80
			2/21/12	80.11	117.89
			3/28/12	NM	NM
EW-4	197.00	71 - 86	12/21/11	78.57	118.43
			1/19/12	72.22	124.78
			2/21/12	73.21	123.79
			3/28/12	72.95	124.05
EW-5	195.00	70 - 85	12/21/11	79.71	115.29
			1/19/12	79.86	115.14
			2/21/12	79.87	115.13
			3/28/12	79.18	115.82
PZ-1	198.04	68 - 88	12/22/11	82.42	115.62
			1/24/12	82.14	115.90
			2/29/12	83.96	114.08
			3/16/12	83.32	114.72
PZ-2	199.29	64 - 84	12/22/11	82.70	116.59
			1/24/12	82.48	116.81
			2/29/12	83.98	115.31
			3/16/12	83.37	115.92
PZ-3	201.59	69.8 - 89.8	12/22/11	81.23	120.36
			1/24/12	80.94	120.65
			2/29/12	82.14	119.45
			3/16/12	81.38	120.21
PZ-4	193.88	70 - 90	12/22/11	67.21	126.67
			1/24/12	67.21	126.67
			2/29/12	67.62	126.26
			3/16/12	67.01	126.87
PZ-5	208.86	83 - 98	12/22/11	82.41	126.45
			1/24/12	82.30	126.56
			2/29/12	83.17	125.69
			3/16/12	82.57	126.29
PZ-6	208.29	83 - 98	12/22/11	81.86	126.43
			1/24/12	81.72	126.57
			2/29/12	82.66	125.63
			3/16/12	81.98	126.31
PZ-7	208.84	86 - 101	12/22/11	84.48	124.36
			1/24/12	84.39	124.45
			2/29/12	85.42	123.42
			3/16/12	84.79	124.05

Table A2-1
Omega Chemical Superfund Site
Summary of Groundwater Elevations

Well No.	Top of Casing Elevation ¹ (feet MSL ²)	Screen Interval (feet bgs ³)	Date	Depth to Water (feet btoc ⁴)	Groundwater Elevation (feet MSL ²)
PZ-8	209.31	86 - 101	12/22/11	83.48	125.83
			1/24/12	84.11	125.20
			2/29/12	85.03	124.28
			3/16/12	84.41	124.90
OW-1*	210.30	62.5 - 77.5	12/22/11	79.26	131.04
			1/24/12	79.43	130.87
			2/29/12	79.84	130.46
			3/16/12	DRY (>80)	DRY(<130.30)
OW-1b	204.98	110 - 120	12/22/11	NM	NM
			1/24/12	80.75	124.23
			2/29/12	81.42	123.56
			3/16/12	81.14	123.84
OW-2	200.10	60 - 80	12/22/11	79.90	120.20
			1/24/12	79.34	120.76
			2/29/12	DRY (>80)	DRY (<120.10)
			3/16/12	DRY (>80)	DRY (<120.10)
OW-3	196.33	63 - 83	12/22/11	78.75	117.58
			1/24/12	78.38	117.95
			2/29/12	79.69	116.64
			3/16/12	79.12	117.21
OW-3b	194.86	112 - 122	12/22/11	79.61	115.25
			1/24/12	79.14	115.72
			2/29/12	80.14	114.72
			3/16/12	79.97	114.89
OW-4a	182.47	49.8 - 69.8	12/22/11	65.88	116.59
			1/24/12	65.20	117.27
			2/29/12	65.74	116.73
			3/16/12	65.08	117.39
OW-4b	182.22	112 - 122.3	12/22/11	67.88	114.34
			1/24/12	67.02	115.20
			2/29/12	67.84	114.38
			3/16/12	67.88	114.34
OW-7	212.01	70.9 - 90.9	12/22/11	83.34	128.67
			1/24/12	83.32	128.69
			2/29/12	83.87	128.14
			3/16/12	83.19	128.82
OW-8	198.42	60.4 - 80	12/22/11	DRY (>80)	DRY (<118.42)
			1/24/12	DRY (>80)	DRY (<118.42)
			2/29/12	DRY (>80)	DRY (<118.42)
			3/16/12	DRY (>80)	DRY (<118.42)
OW-8b	198.65	116 - 126	12/22/11	82.80	115.85
			1/24/12	82.32	116.33
			2/29/12	83.08	115.57
			3/16/12	83.08	115.57
OW-9	195.70	70 - 90	12/22/11	76.85	118.85
			1/24/12	73.00	122.70
			2/29/12	77.47	118.23
			3/16/12	76.81	118.89

Table A2-1
Omega Chemical Superfund Site
Summary of Groundwater Elevations

Well No.	Top of Casing Elevation ¹ (feet MSL ²)	Screen Interval (feet bgs ³)	Date	Depth to Water (feet btoc ⁴)	Groundwater Elevation (feet MSL ²)
OW-10	193.17	69.5 - 89.5	12/22/11	71.75	121.42
			1/24/12	71.26	121.91
			2/29/12	72.16	121.01
			3/16/12	71.80	121.37

Notes:

1) Elevation data per California Coordinate System NAD27

2) MSL = mean sea level

3) bgs = below ground surface

4) btoc = below top of casing

NM - not measured due to no access

Water levels represent the twelve months of gauging in 2011.

Where multiple readings were taken on the same day, the last reading was used.

Well OW-1A has 2.5 feet of above ground stick up, and a 2.5-foot long sump.

* denotes a possible anomalous water level

Attachment 3

Summary of Extraction and Monitoring Wells Analytical Results and Graphs

Figure A3-1
Omega Chemical Superfund Site
PCE and Total VOC Concentrations
Well EW-2

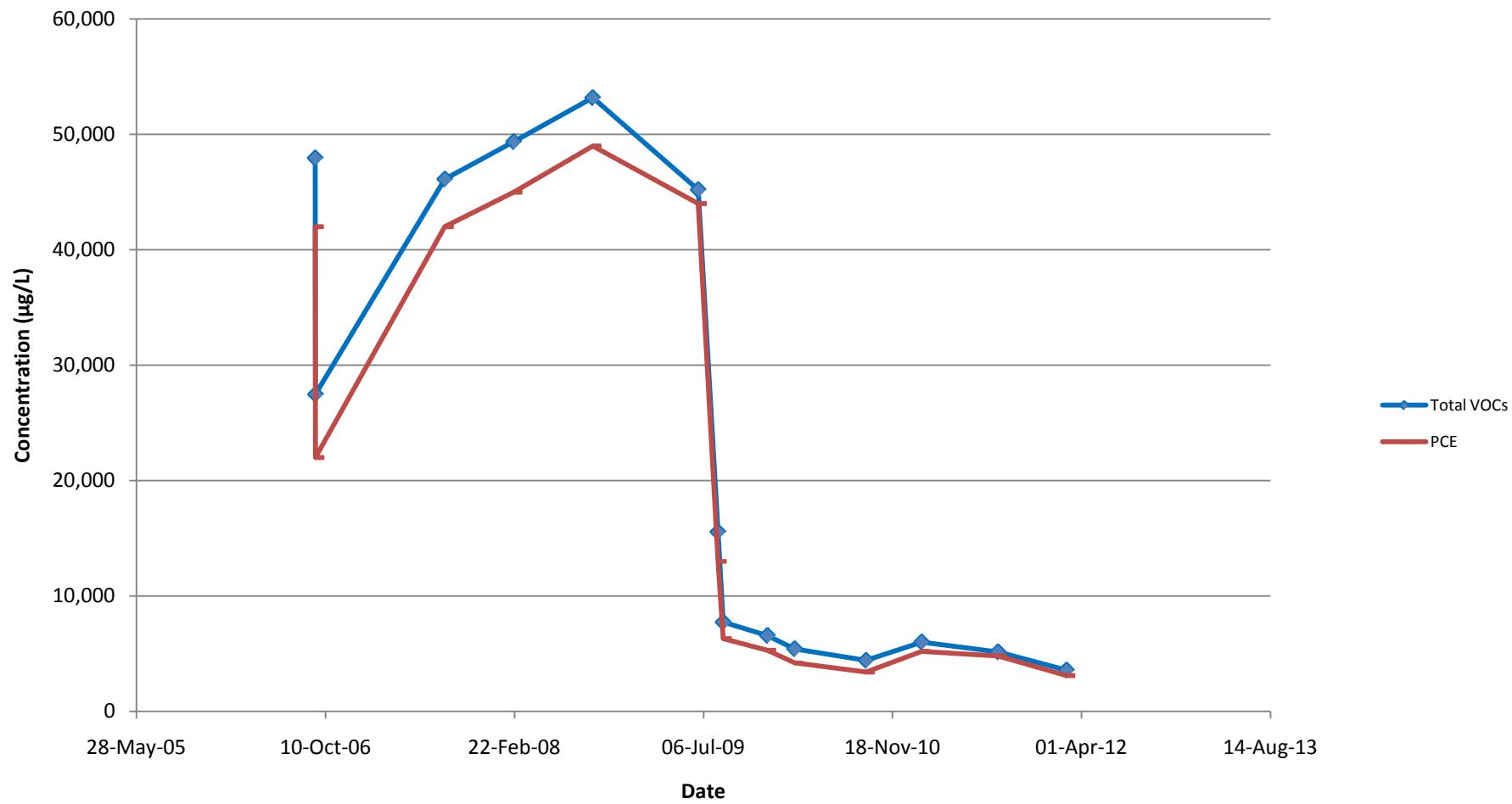


Figure A3-2
Omega Chemical Superfund Site
Total VOC Concentrations
Wells EW-1, EW-3, EW-4, and EW-5

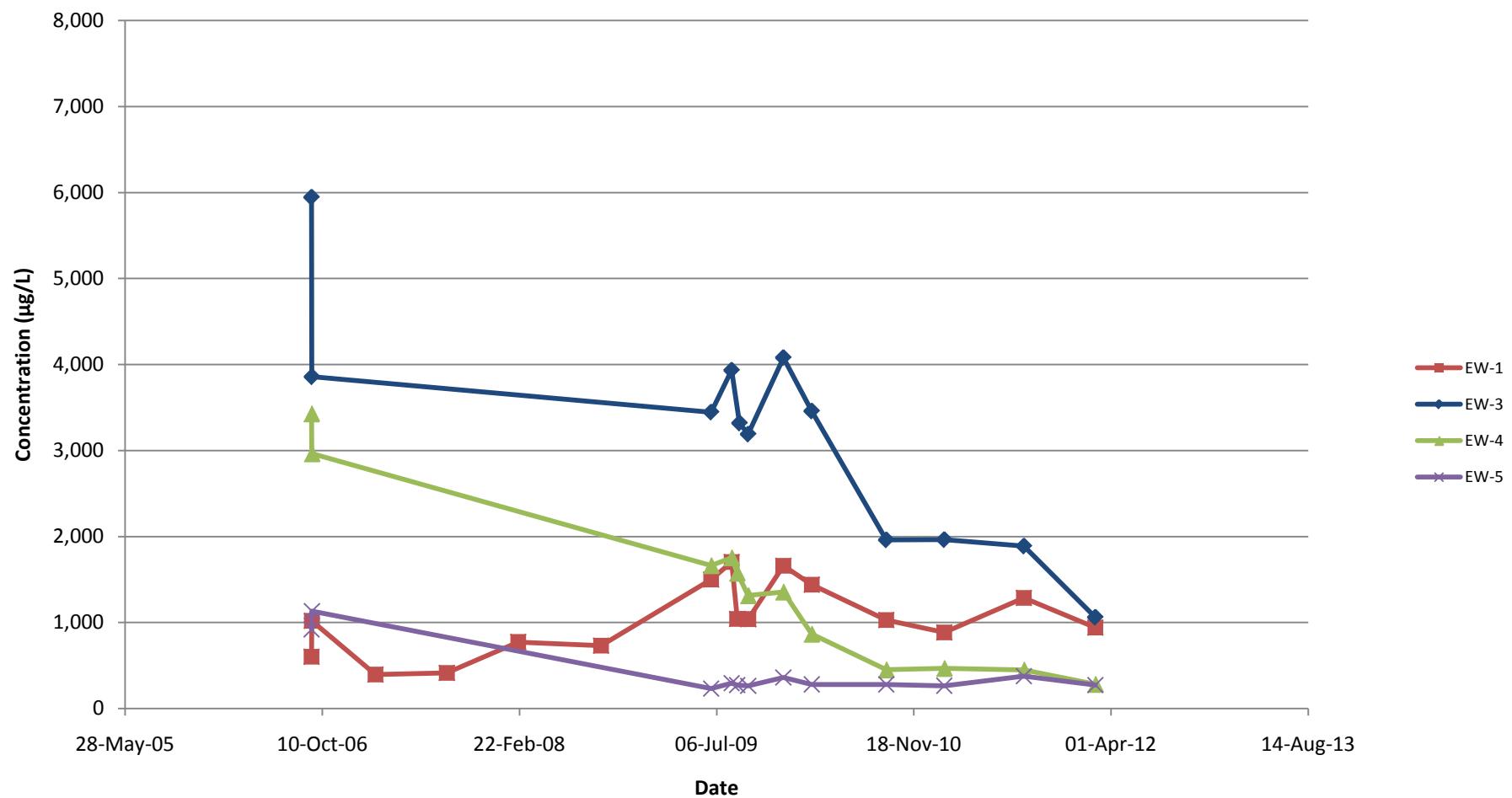


Figure A3-3
Omega Chemical Superfund Site
PCE Concentrations
Wells EW-1, EW-3, EW-4, and EW-5

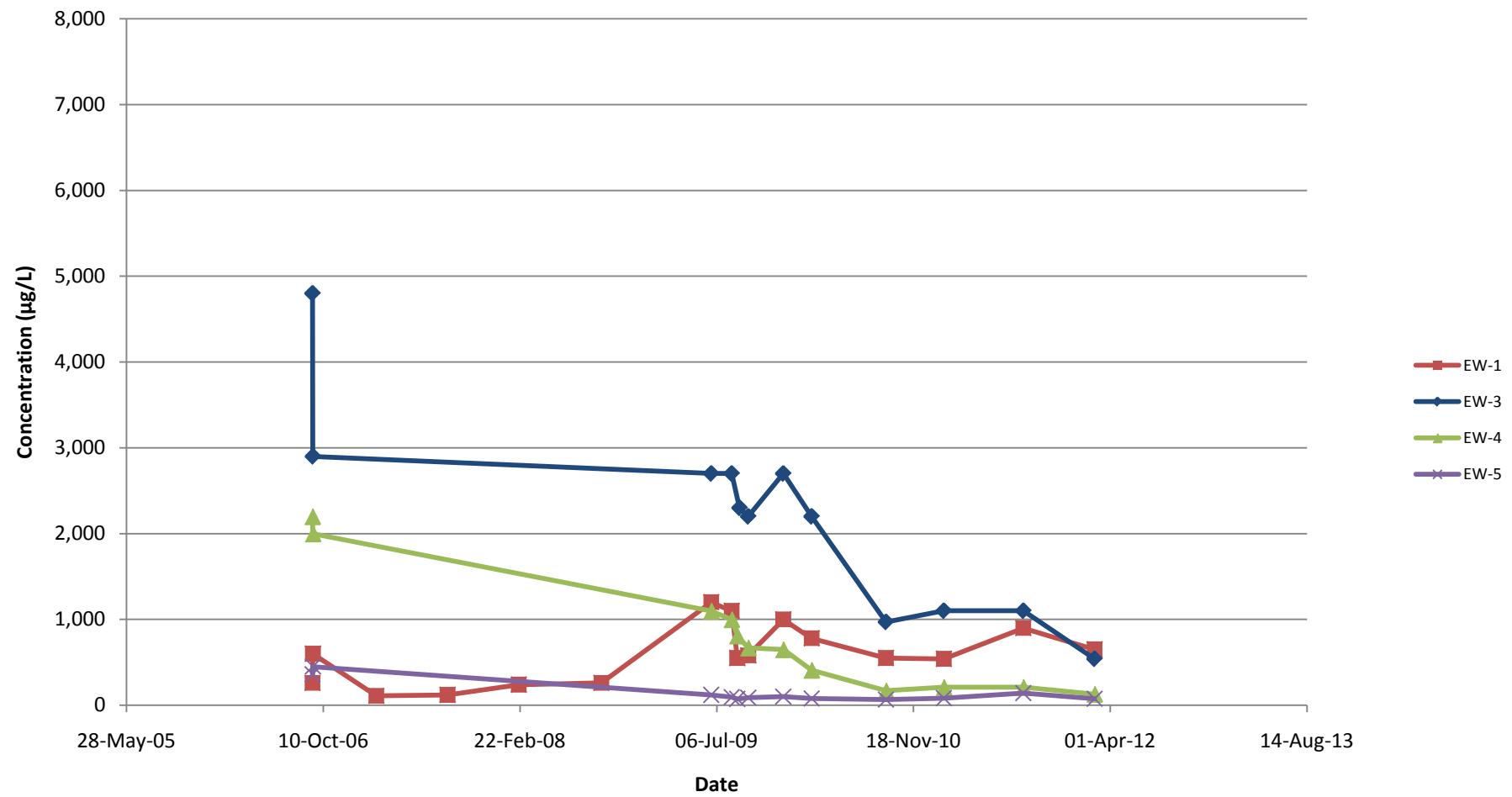


Figure A3-4
Omega Chemical Superfund Site
1-4 Dioxane Concentrations
Wells EW-1 and EW-3

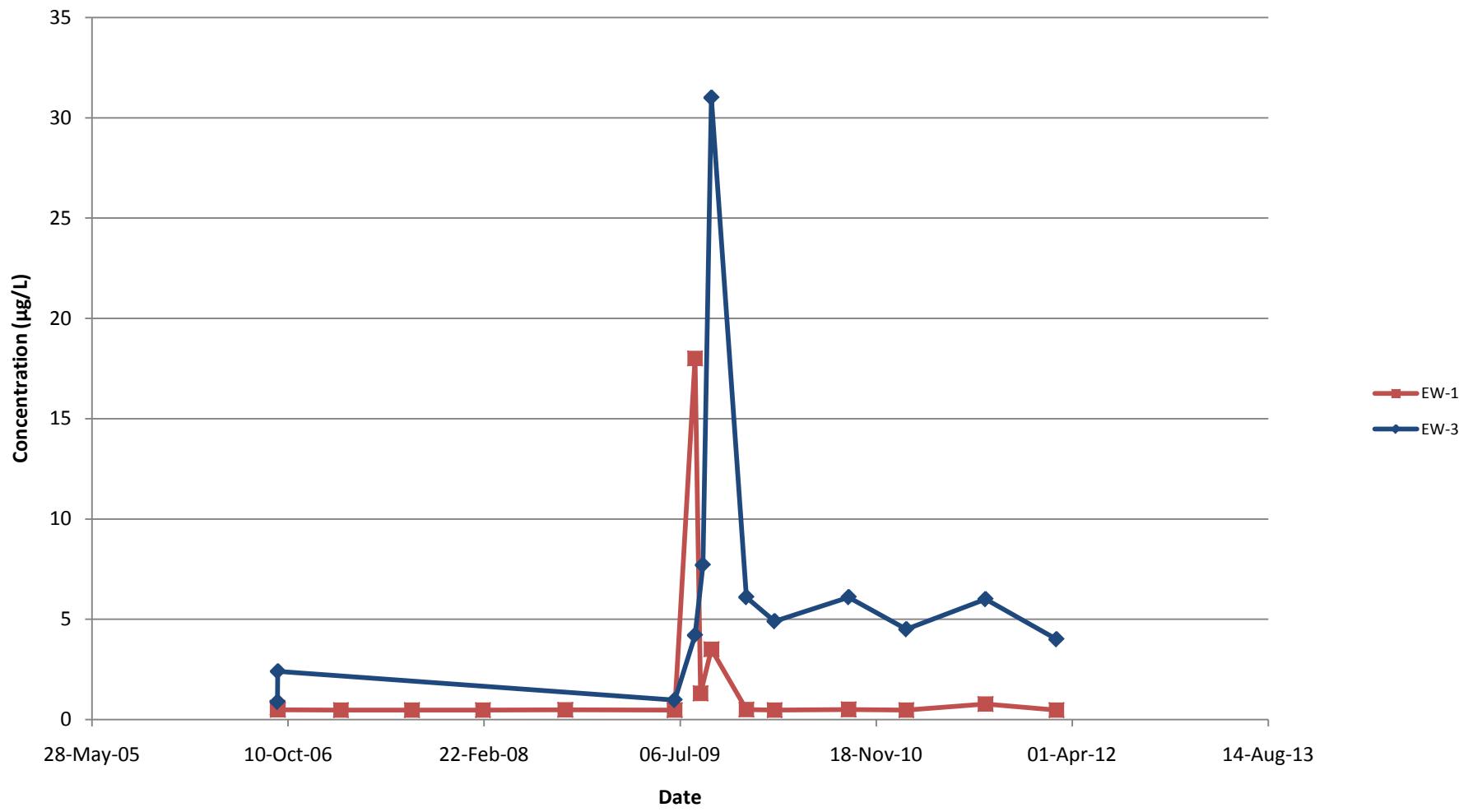


Figure A3-5
Omega Chemical Superfund Site
1-4 Dioxane Concentrations
Well EW-2

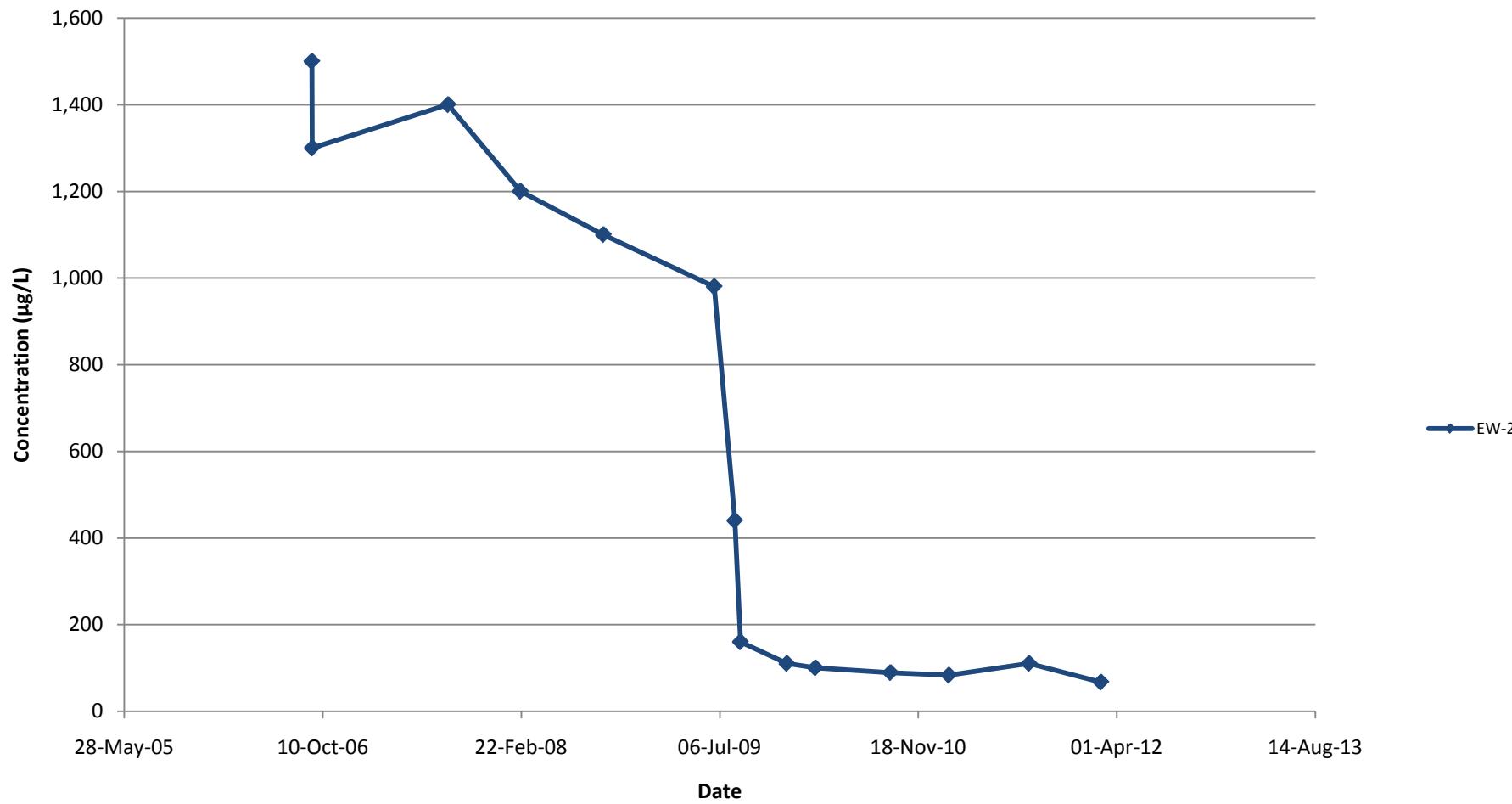


Figure A3-6
Omega Chemical Superfund Site
Total VOC Concentrations
Wells OW-1, OW-8 and OW-9

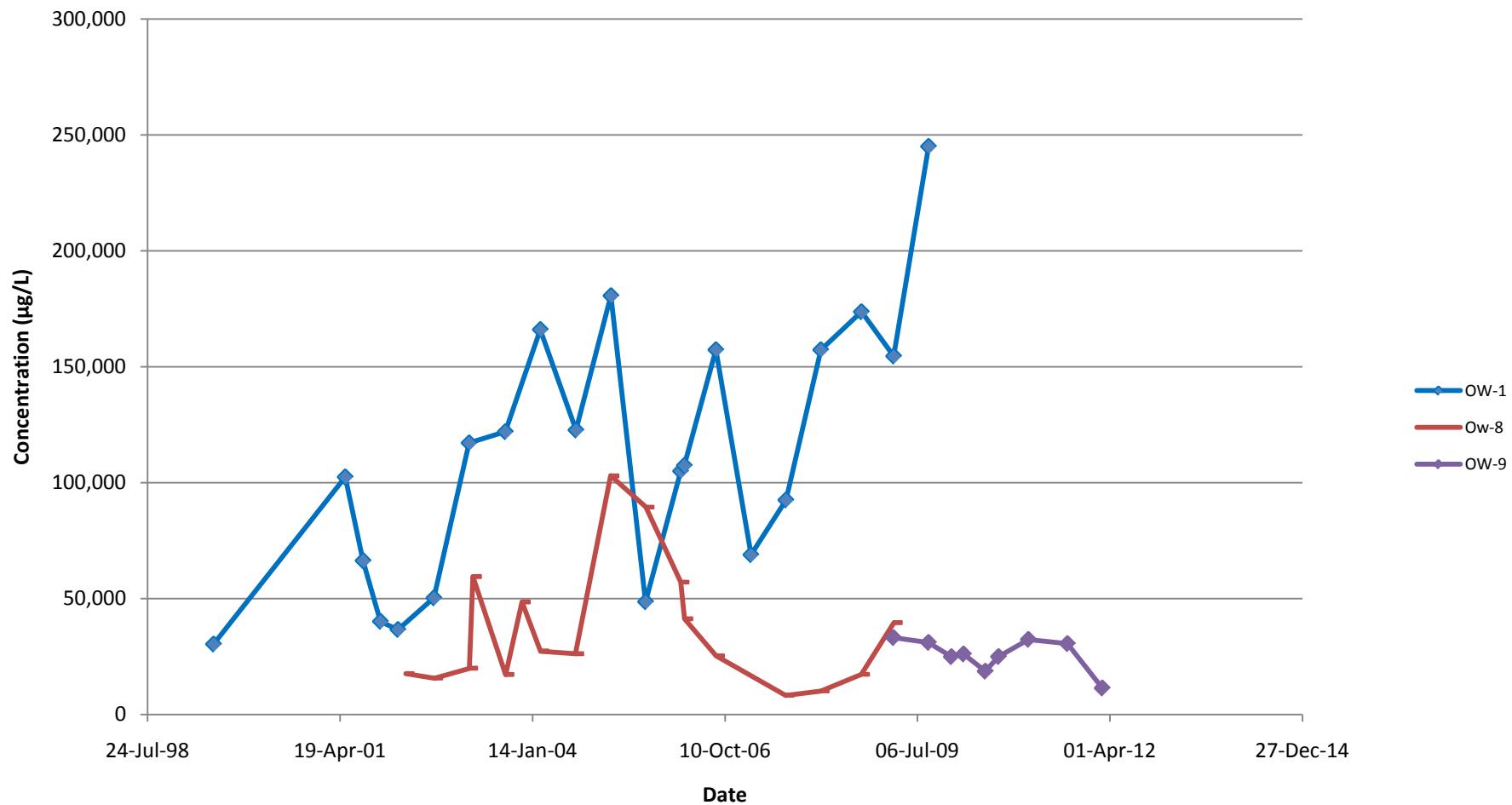


Figure A3-7
Omega Chemical Superfund Site
Total VOC Concentrations
Wells OW-2, OW-3 and OW-4a

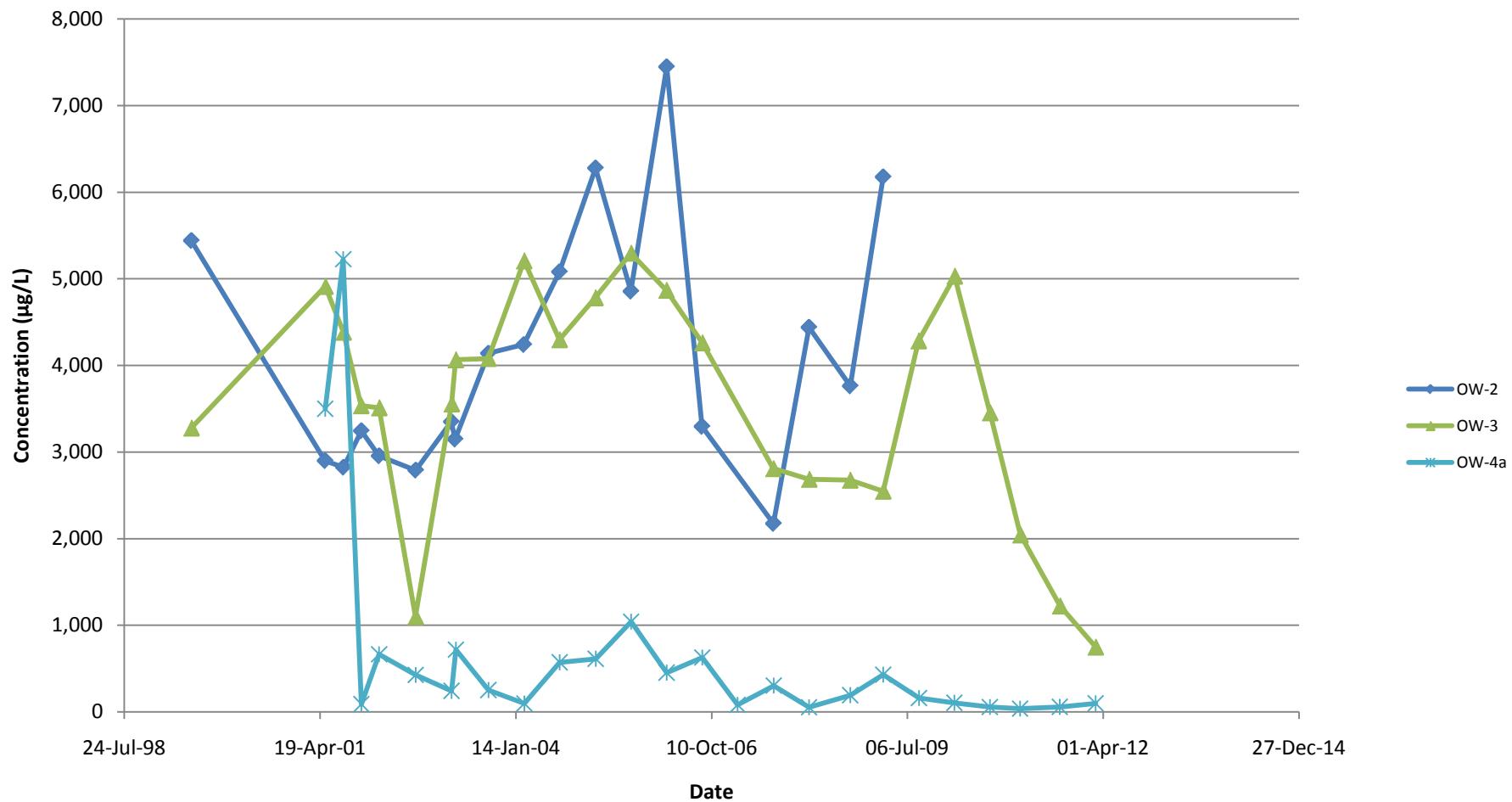


Figure A3-8
Omega Chemical Superfund Site
Total VOC Concentrations
Wells OW-1b, OW-7 and OW-10

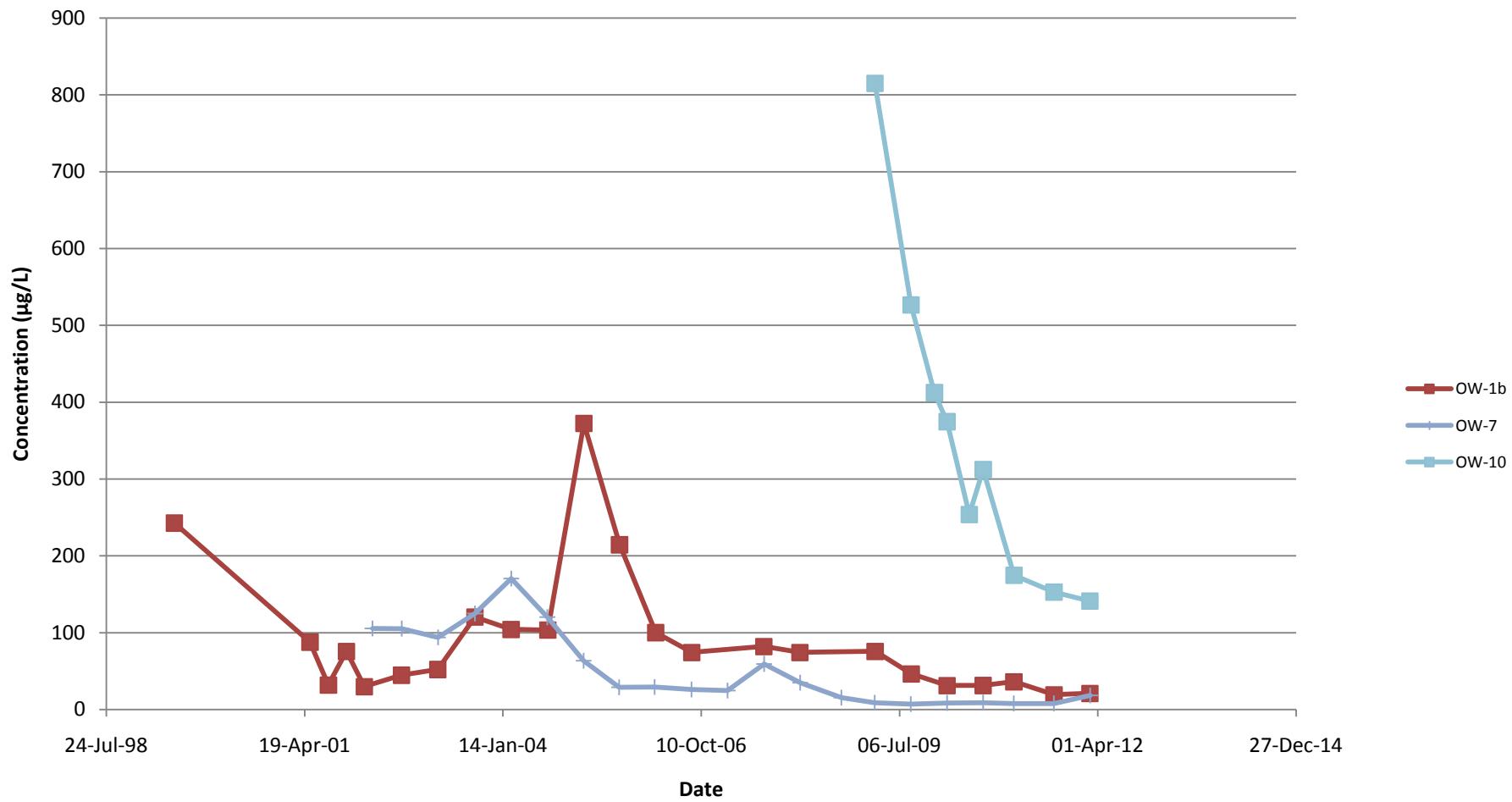


Figure A3-9
Omega Chemical Superfund Site
Total VOC Concentrations
Wells OW-3b, OW-4b and OW-8b

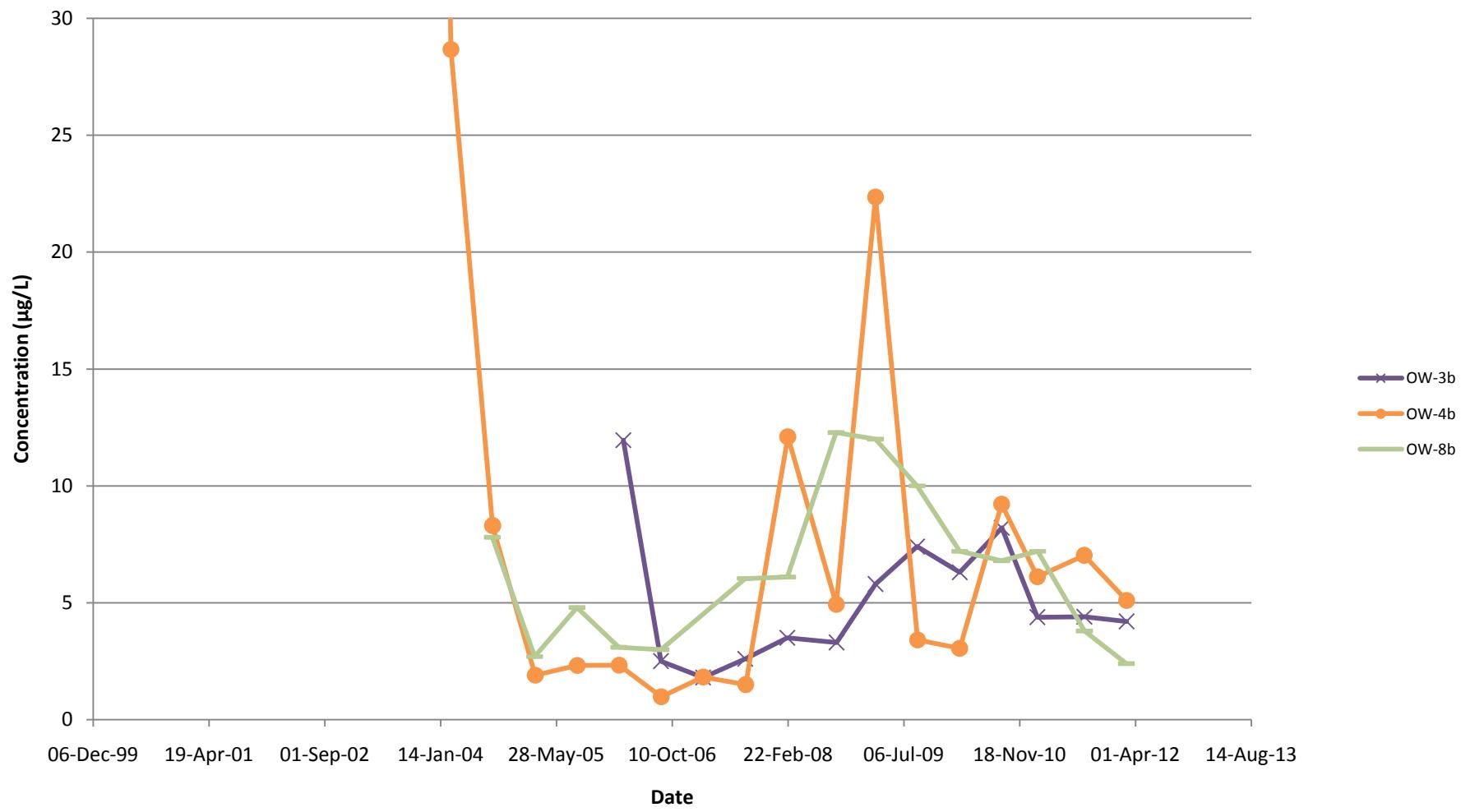


Figure A3-10
Omega Chemical Superfund Site
PCE Concentrations
Wells OW-1, OW-8 and OW-9

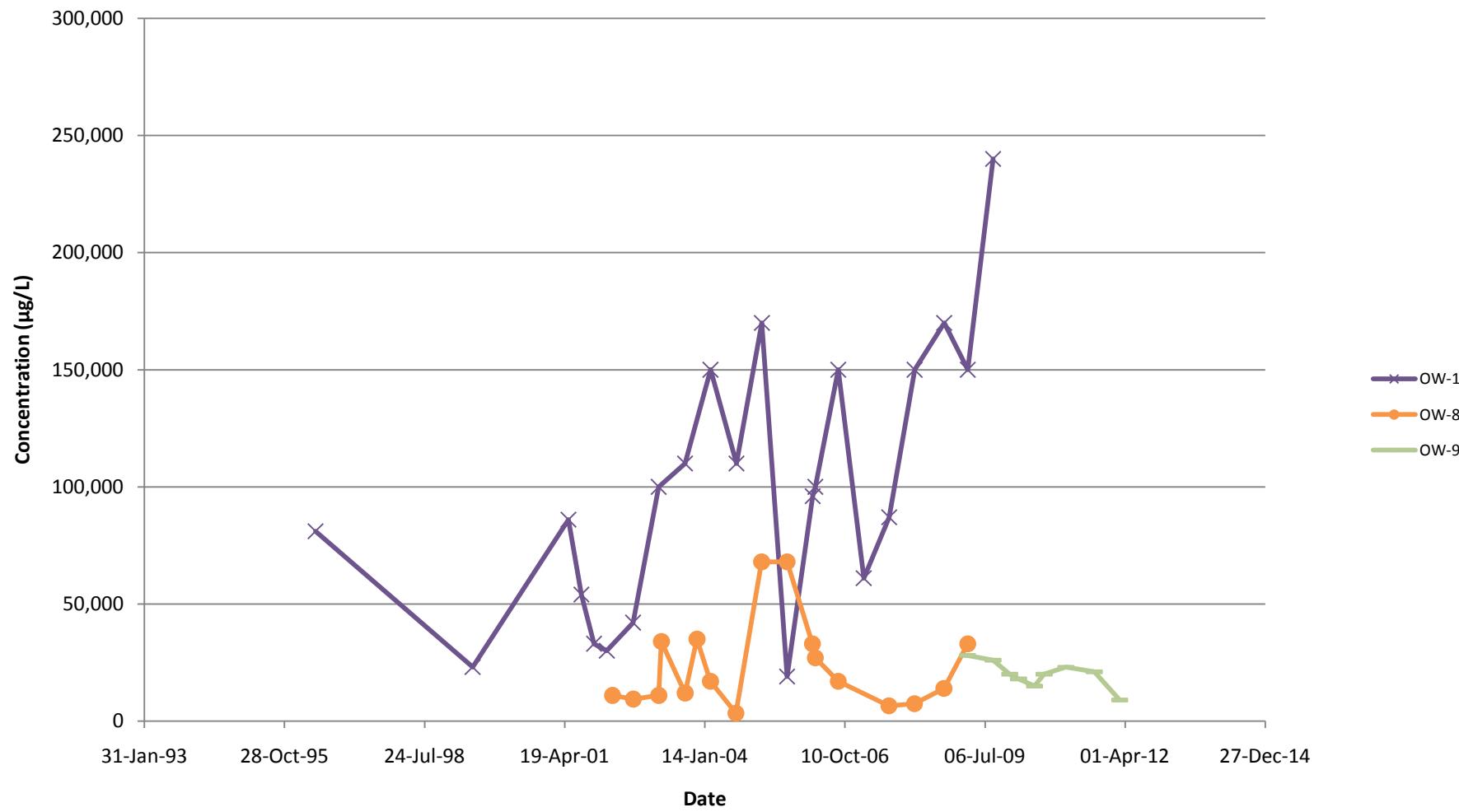


Figure A3-11
Omega Chemical Superfund Site
PCE Concentrations
Wells OW-1b, OW-7 and OW-10

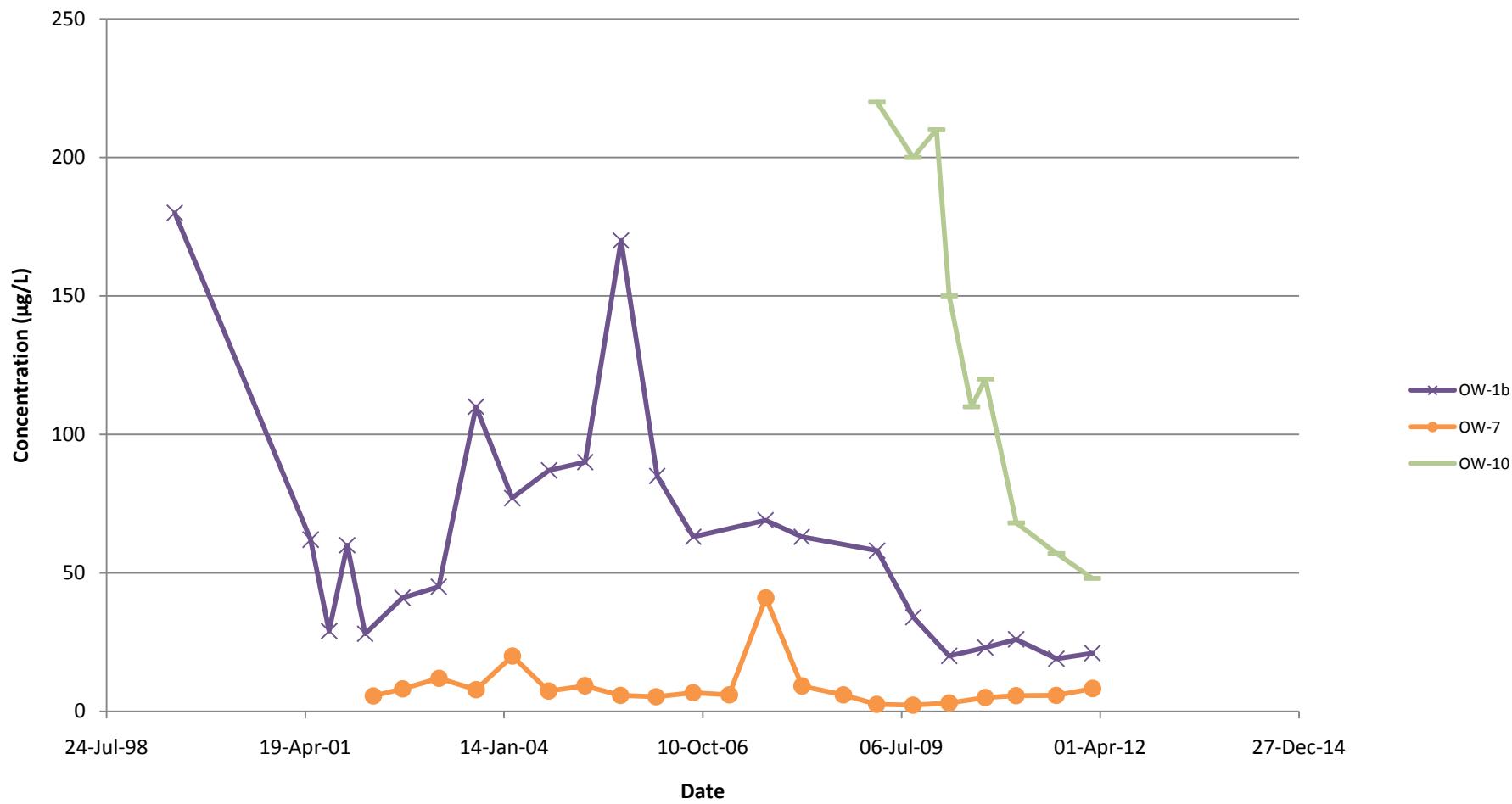


Figure A3-12
Omega Chemical Superfund Site
PCE Concentrations
Wells OW-2, OW-3 and OW-4a

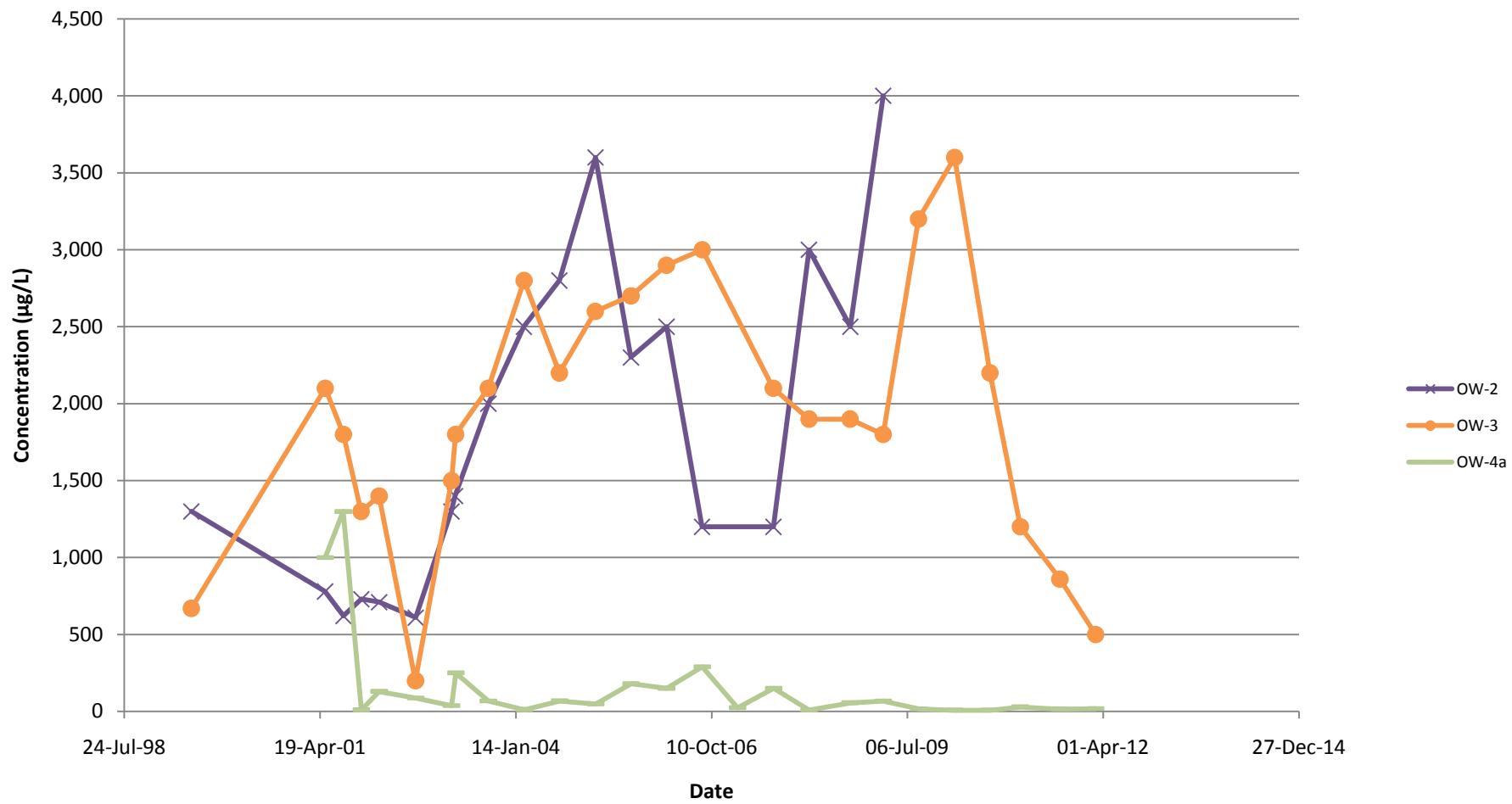


Figure A3-13
Omega Chemical Superfund Site
PCE Concentrations
Wells OW-3b, OW-4b and OW-8b

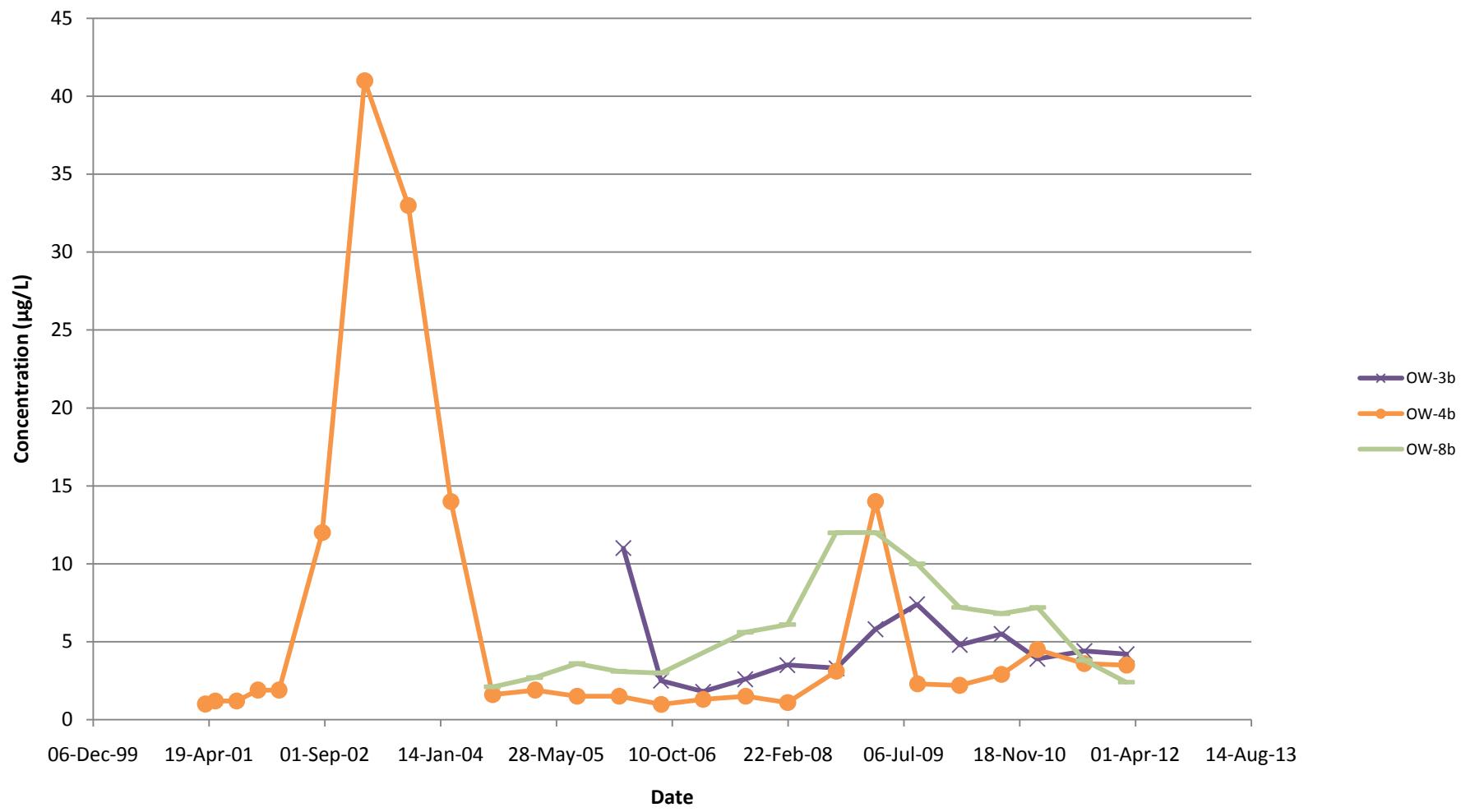


Figure A3-14
Omega Chemical Superfund Site
1-4 Dioxane Concentrations
Well OW-1

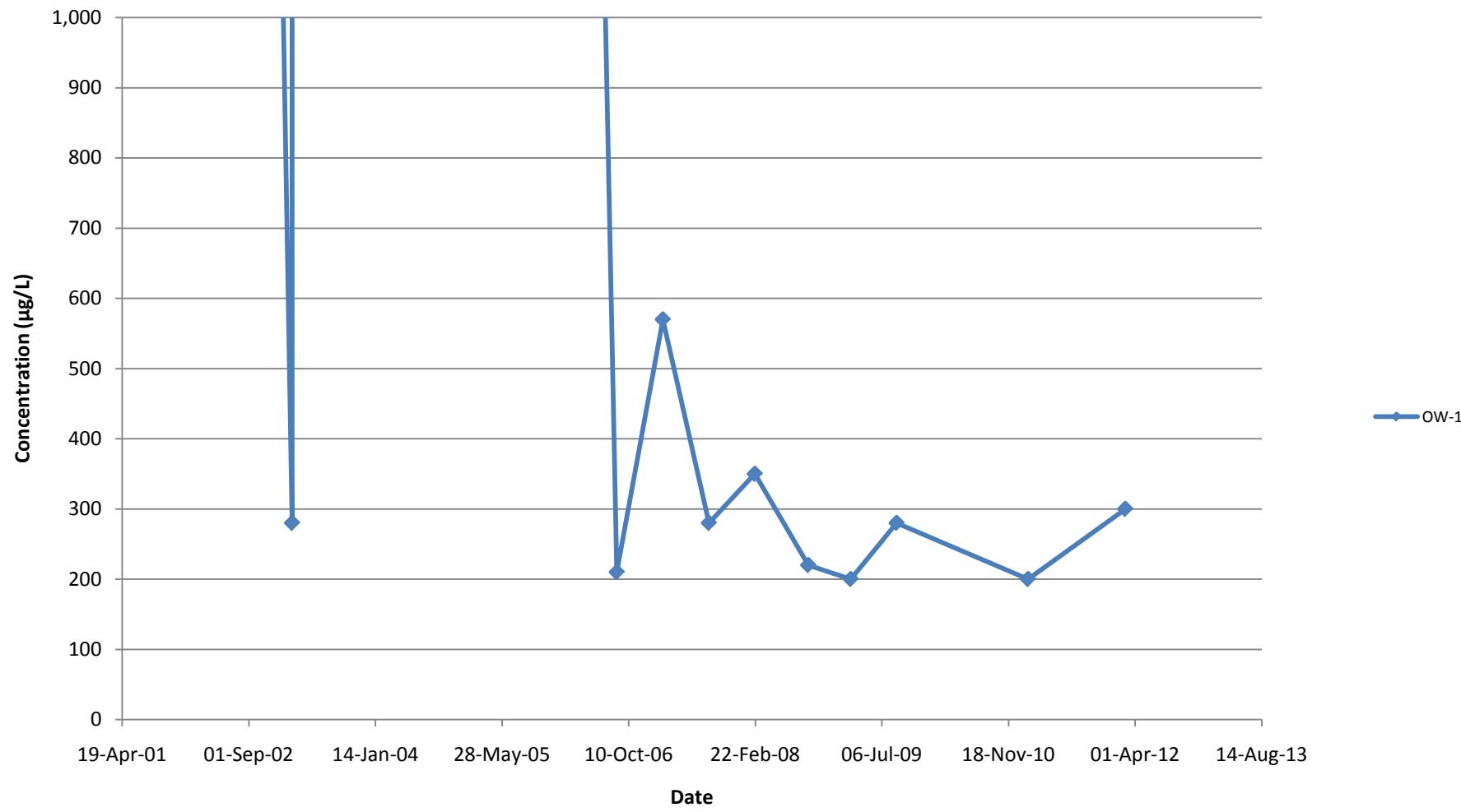


Figure A3-15
Omega Chemical Superfund Site
1-4 Dioxane Concentrations
Wells OW-1b and OW-7

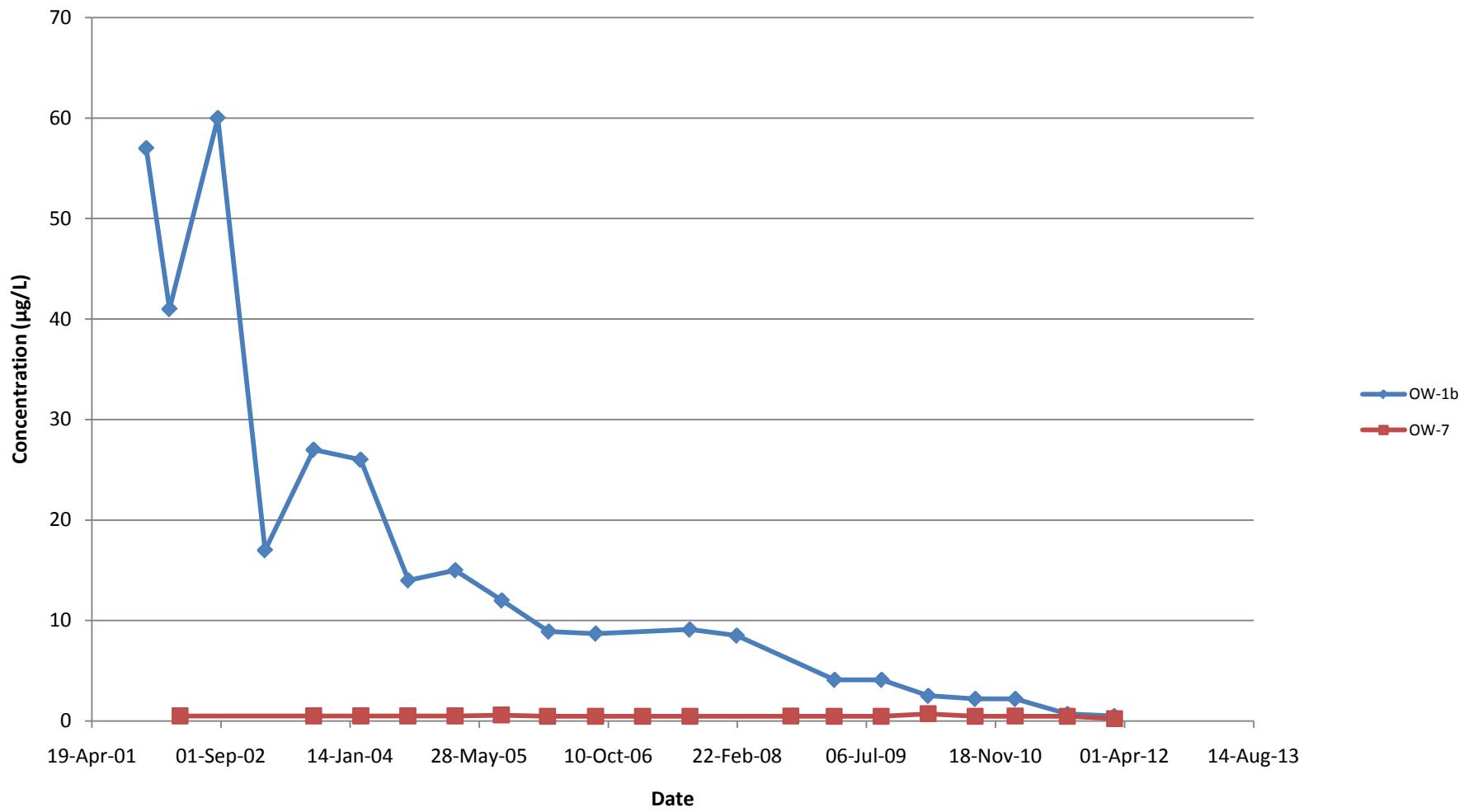


Figure A3-16
Omega Chemical Superfund Site
1-4 Dioxane Concentrations
Wells OW-3 and OW-4a

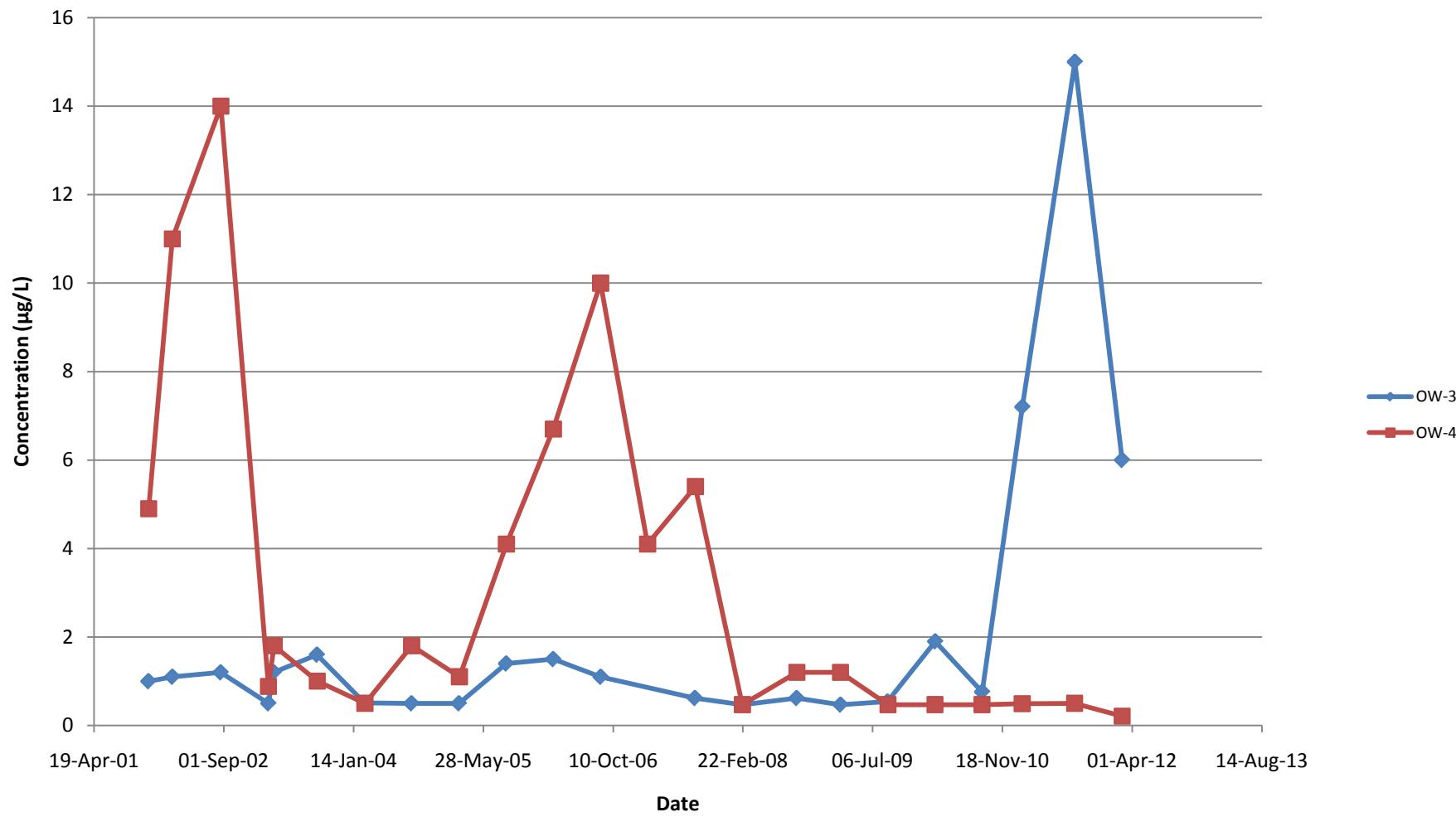
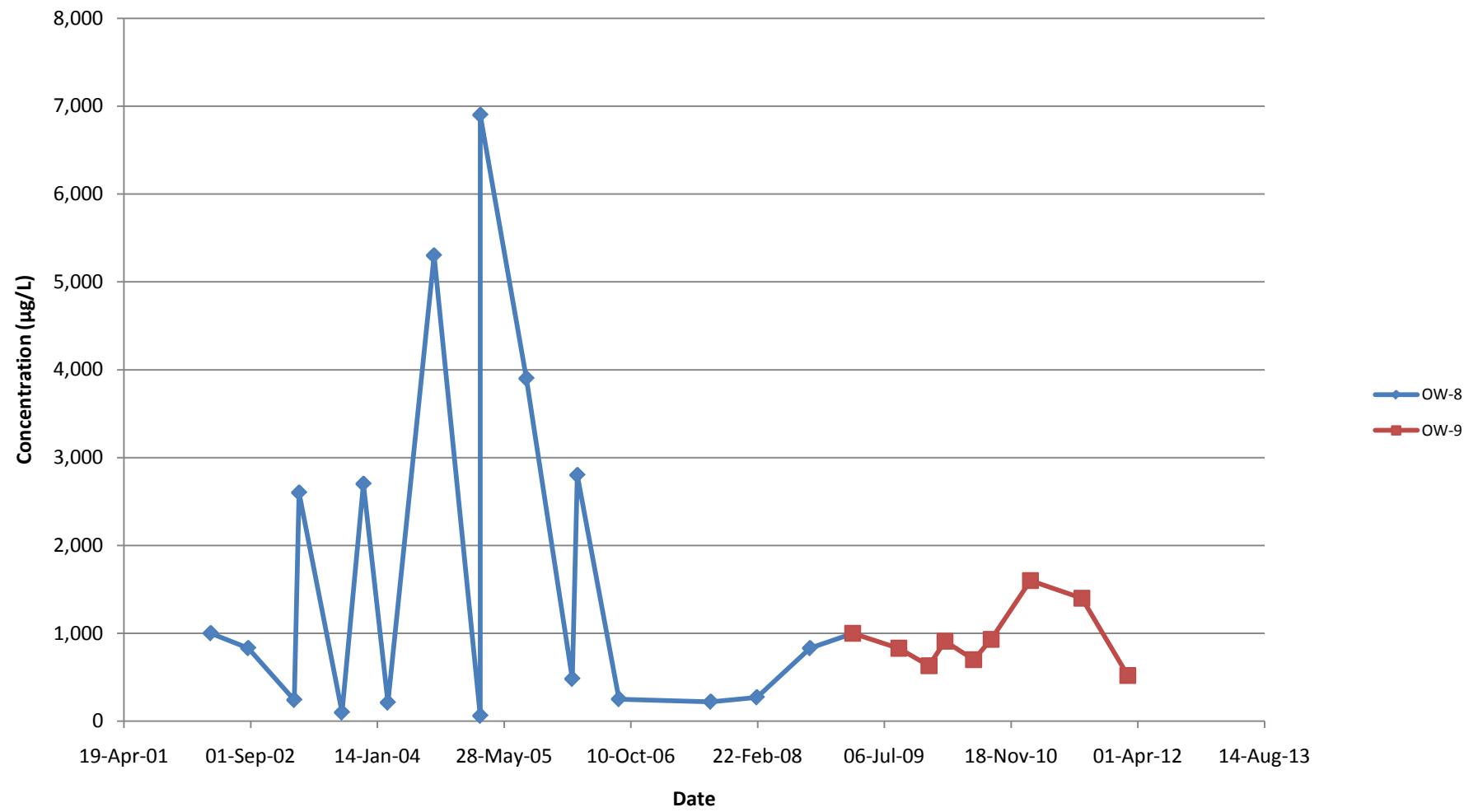
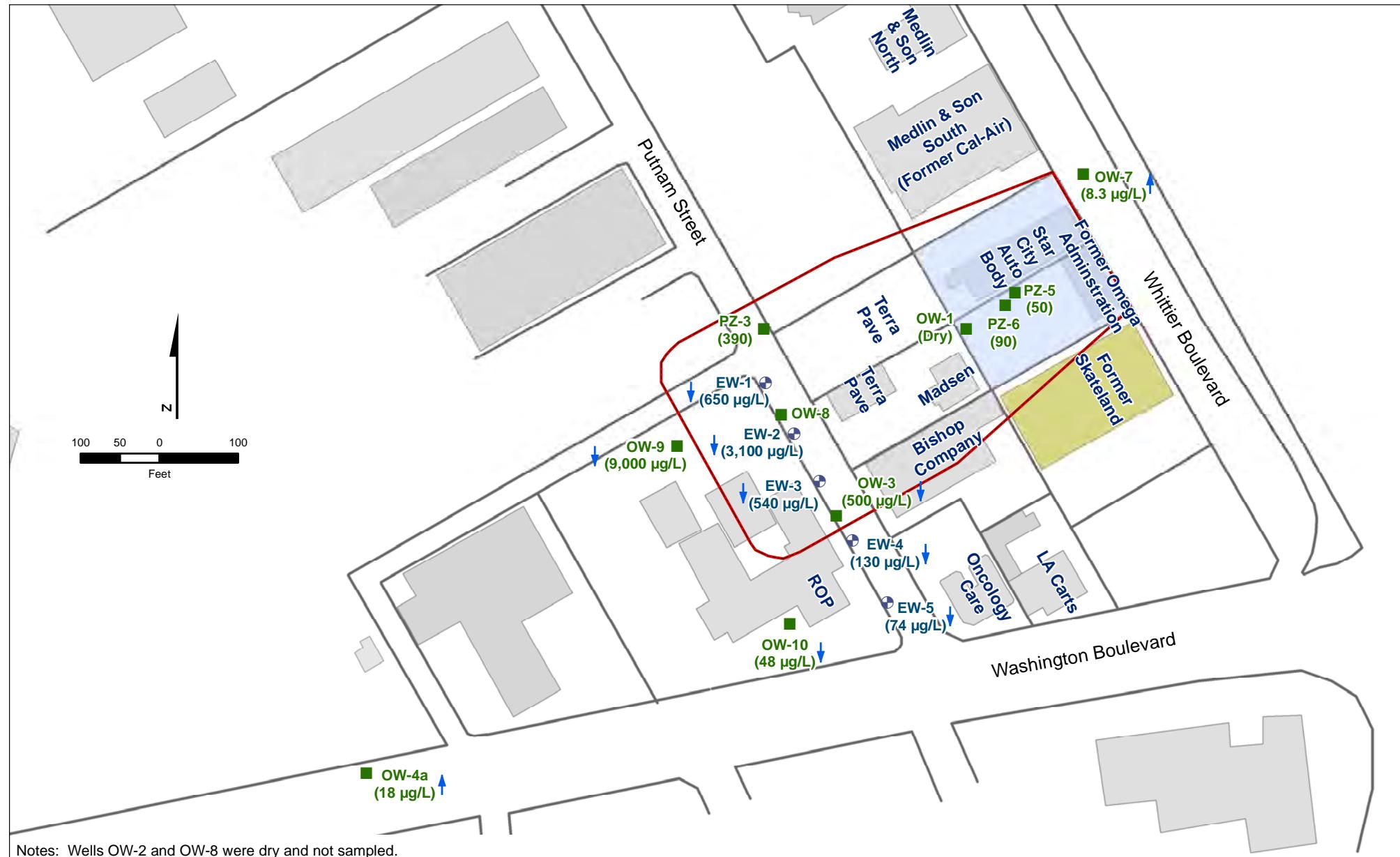


Figure A3-17
Omega Chemical Superfund Site
1-4 Dioxane Concentrations
Wells OW-8 and OW-9

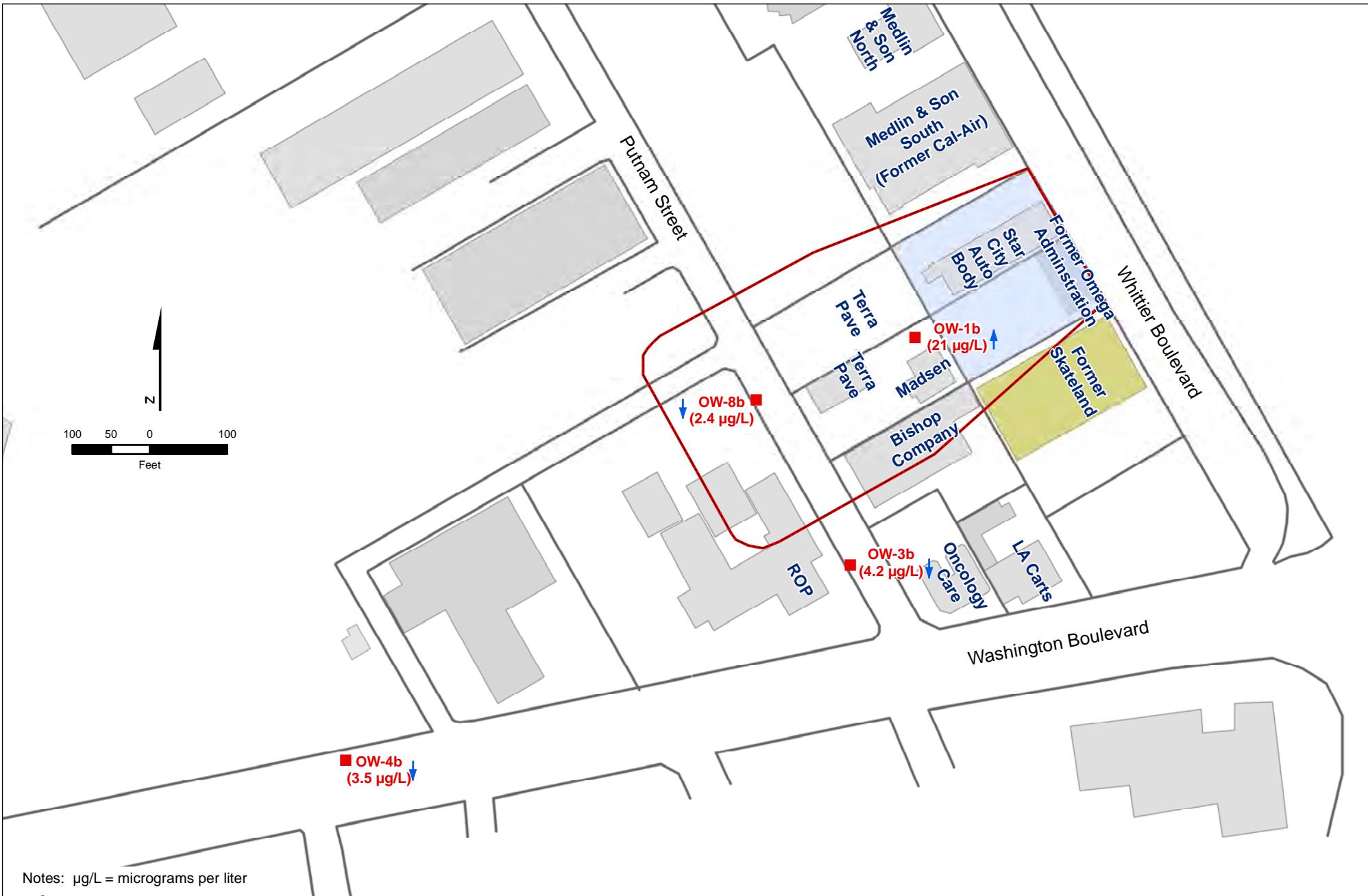




Legend

- Former Omega Chemical Property
- Phase Ia Area
- Former Building
- Other Buildings

- Extraction Well
- Shallow Observation Well / Piezometer
- Concentration Increase from Previous Quarter
- Concentration Decrease from Previous Quarter



Legend

- Former Omega Chemical Property
- Phase Ia Area
- Former Building
- Other Buildings

- Extraction Well
- Deep Observation Well / Piezometer
- Concentration Increase from Previous Quarter
- Concentration Decrease from Previous Quarter

Omega Chemical
Tetrachloroethene (PCE) B-Zone
Concentration Map - February 2012

Figure A3-19

Table A3-1
Omega Chemical Superfund Site
Tetrachloroethene, Trichloroethene, and 1,4-Dioxane Analytical Summary
Groundwater Analytical Results

Well ID/ Screened Interval		Sample Date	Sample Type	PCE (5)	TCE (5)	1,4-Dioxane (3#)
EW-1	72 - 87	09/13/2006	ORIG	260	36	0.59
		09/14/2006	ORIG	600	52	0.48 U
		02/22/2007	ORIG	110	29	0.47 U
		08/22/2007	ORIG	120	35	0.47 U
		08/22/2007	N	1 U	1 U	0.47 U
		02/19/2008	ORIG	240	55	0.47 U
		02/19/2008	N	1 U	1 U	0.5 U
		09/16/2008	ORIG	260	47	0.48 U
		06/22/2009	ORIG	1200	110	0.47
		08/13/2009	ORIG	1100	80	18
		08/27/2009	ORIG	550	55	1.3
		09/24/2009	ORIG	580	57	3.5
		12/22/2009	ORIG	1000	72	0.49 U
		03/04/2010	ORIG	780	76	0.47 U
		09/09/2010	ORIG	550	56	0.5 U
		02/03/2011	ORIG	540	48	0.47 U
		08/24/2011	ORIG	900	83	0.77 J
		02/21/2012	ORIG	650	76	0.47 U
EW-2	72 - 87	09/13/2006	ORIG	42000	960	1500
		09/14/2006	ORIG	22000	880	1300
		08/22/2007	ORIG	42000 J	770	1400
		08/22/2007	DUP	38000 J	770	1500
		02/20/2008	ORIG	45000	890	1200
		02/20/2008	N	1 U	1 U	0.5 U
		02/20/2008	DUP	43000	800	1300
		09/16/2008	ORIG	49000	970	1100
		09/16/2008	DUP	32000	910	1000
		06/22/2009	ORIG	44000	1200	980
		08/13/2009	ORIG	13000	520	440
		08/27/2009	ORIG	6300	250	160
		12/22/2009	ORIG	5300	180	110
		03/04/2010	ORIG	4200	170	100
		09/09/2010	ORIG	3400	140	89
		02/03/2011	ORIG	5200	160	83
		08/24/2011	ORIG	4800	150	110
		02/21/2012	ORIG	3100	120	67
EW-3	70 - 85	09/13/2006	ORIG	4800	370	0.88
		09/14/2006	ORIG	2900	310	2.4
		06/22/2009	ORIG	2700	260	0.97
		08/13/2009	ORIG	2700	190	4.2
		09/02/2009	ORIG	2300	150	7.7
		09/24/2009	ORIG	2200	270	31

Table A3-1
Omega Chemical Superfund Site
Tetrachloroethene, Trichloroethene, and 1,4-Dioxane Analytical Summary
Groundwater Analytical Results

Well ID/ Screened Interval		Sample Date	Sample Type	PCE (5)	TCE (5)	1,4-Dioxane (3#)
EW-3	70 - 85	12/22/2009	ORIG	2700	180	6.1
		03/04/2010	ORIG	2200	190	4.9
		09/09/2010	ORIG	970	100	6.1
		02/03/2011	ORIG	1100	100	4.5
		08/24/2011	ORIG	1100	95	6
		02/21/2012	ORIG	540	53	4
EW-4	71 - 86	09/13/2006	ORIG	2200	220	0.47 U
		09/13/2006	DUP	2200	160	0.47
		09/14/2006	ORIG	2000	150	0.49 U
		06/22/2009	ORIG	1100	99	0.48 U
		08/13/2009	ORIG	1000	79	0.48 U
		08/27/2009	ORIG	810	68	0.64 U
		09/24/2009	ORIG	670	63	0.56 U
		12/22/2009	ORIG	650	52	0.48 U
		03/04/2010	ORIG	410	39	0.47 U
		09/09/2010	ORIG	170	21	0.47 U
		02/03/2011	ORIG	210	21	0.47 U
		08/24/2011	ORIG	210	22	0.48 U
EW-5	70 - 85	02/21/2012	ORIG	130	13	24
		09/13/2006	ORIG	360	30	0.47 U
		09/14/2006	ORIG	450	39	0.47 U
		09/14/2006	DUP	460	45	0.47 U
		06/22/2009	ORIG	120	12	0.49 U
		08/13/2009	ORIG	93	10	0.49 U
		08/27/2009	ORIG	73	7.7	0.68 U
		09/24/2009	ORIG	88	9.6	0.48 U
		12/22/2009	ORIG	100	8.2	2 U
		03/04/2010	ORIG	78	8.1	0.47 U
		09/09/2010	ORIG	66	8	0.48 U
		02/03/2011	ORIG	82	8.4	0.47 U
		08/24/2011	ORIG	140	13	0.48 U
OW1	62.5 - 77.5	02/21/2012	ORIG	74	7.1	0.47 U
		06/06/1996	ORIG	81000	3400	--
		07/02/1999	ORIG	23000	1300	--
		05/16/2001	ORIG	86000	2400	--
		08/17/2001	ORIG	54000	2000	--
		11/15/2001	ORIG	33000	1200	3300 E
		02/14/2002	ORIG	30000	1200	11000 E
		08/20/2002	ORIG	42000	1900	4100 E
		02/19/2003	ORIG	100000	3000	52000
		08/26/2003	ORIG	110000	2200	8400
		08/26/2003	DUP	--	--	2700 E

Table A3-1
Omega Chemical Superfund Site
Tetrachloroethene, Trichloroethene, and 1,4-Dioxane Analytical Summary
Groundwater Analytical Results

Well ID/ Screened Interval		Sample Date	Sample Type	PCE (5)	TCE (5)	1,4-Dioxane (3#)
OW1	62.5 - 77.5	02/24/2004	ORIG	150000	3600	12000
		08/27/2004	ORIG	110000	2300	5600
		08/27/2004	DUP	150000	3500	6800
		02/25/2005	ORIG	170000	2500	3300
		08/24/2005	ORIG	19000	10000	3100
		02/22/2006	ORIG	96000	2800	2700
		03/13/2006	ORIG	100000	2200	3100
		08/24/2006	ORIG	150000	2600	210
		02/22/2007	ORIG	61000	2800	570
		02/22/2007	DUP	58000	2700	510
		08/23/2007	ORIG	87000	2500	280
		08/23/2007	DUP	90000	2600	290
		02/20/2008	ORIG	150000	3300	350
		02/20/2008	DUP	150000	3000	320 J
		09/18/2008	ORIG	170000	1900	220
		09/18/2008	DUP	110000	2000	210
		03/05/2009	ORIG	150000	2000	200
		03/05/2009	DUP	150000	1900	240
		09/02/2009	ORIG	240000	2300	280
OW1b	110 - 120	07/02/1999	ORIG	--	11	--
		07/02/1999	DUP	300	14	--
		05/16/2001	ORIG	62	2.4	--
		05/16/2001	DUP	56	1.9	--
		08/17/2001	ORIG	29	1 U	--
		11/16/2001	ORIG	60	5.6	57
		02/14/2002	ORIG	28	1 U	41
		08/20/2002	ORIG	41	1.4	60
		02/19/2003	ORIG	45	2.2	17
		08/26/2003	ORIG	110	3.5	27
		02/24/2004	ORIG	77	3.9	26
		08/27/2004	ORIG	87	2.8	14
		02/25/2005	ORIG	90	3.5	15
		08/24/2005	ORIG	170	4.2	12
		02/22/2006	ORIG	85	3.1	8.9
		08/23/2006	ORIG	63	2.1	8.7
		08/22/2007	ORIG	69	2.4	9.1
		02/20/2008	ORIG	63	2.3	8.5
		03/05/2009	ORIG	58	1.9	4.1
		09/03/2009	ORIG	34	1.7	4.1
		03/03/2010	ORIG	20	0.73 J	2.5
		03/03/2010	N	1 U	1 U	0.47 U
		09/01/2010	ORIG	23	0.76 J	2.2
		02/03/2011	ORIG	26	0.87 J	2.2

Table A3-1
Omega Chemical Superfund Site
Tetrachloroethene, Trichloroethene, and 1,4-Dioxane Analytical Summary
Groundwater Analytical Results

Well ID/ Screened Interval		Sample Date	Sample Type	PCE (5)	TCE (5)	1,4-Dioxane (3#)
OW1B	110 - 120	08/24/2011	ORIG	19	0.29 J	0.7 U
		02/21/2012	ORIG	21	1 U	0.49 U
OW2	60 - 80	07/02/1999	ORIG	1300	240	--
		05/15/2001	ORIG	780	150	--
		08/17/2001	ORIG	620	110	--
		11/16/2001	ORIG	730	130	0.5 U
		02/15/2002	ORIG	710	110	0.54 U
		08/21/2002	ORIG	610	120	1
		02/19/2003	ORIG	1300	150	1.4
		03/10/2003	ORIG	1400	160	0.5 U
		08/27/2003	ORIG	2000	230	0.5 U
		02/24/2004	ORIG	2500	200	0.5 U
		08/24/2004	ORIG	2800	300	12
		02/24/2005	ORIG	3600	300	1.7
		08/24/2005	ORIG	2300	280	0.51
OW3	63 - 83	02/22/2006	ORIG	2500	810	0.47 U
		08/22/2006	ORIG	1200	150	0.47 U
		08/22/2007	ORIG	1200	120	0.47 U
		02/19/2008	ORIG	3000	270	0.47 U
		09/17/2008	ORIG	2500	210	2.3
		09/17/2008	N	0.68 J	1 U	0.74
		03/04/2009	ORIG	4000	340	0.47 U
		03/04/2009	N	1 U	1 U	0.47 U
		07/02/1999	ORIG	670	170	--
		05/16/2001	ORIG	2100	270	--
		08/17/2001	ORIG	1800	200	--
		11/15/2001	ORIG	1300	180	1
		02/15/2002	ORIG	1400	180	1.1
		08/20/2002	ORIG	200	160	1.2
		02/20/2003	ORIG	1500	170	0.5 U
CDM Smith		03/13/2003	ORIG	1800	170	1.2
		08/26/2003	ORIG	2100	190	1.6 UB
		02/25/2004	ORIG	2800	260	0.51
		02/25/2004	DUP	3200	290	0.5 U
		08/24/2004	ORIG	2200	250	0.5 U
		02/23/2005	ORIG	2600	200	0.5 U
		08/24/2005	ORIG	2700	320	1.4
		02/21/2006	ORIG	2900	280	1.5
		08/23/2006	ORIG	3000	260	1.1
		08/21/2007	ORIG	2100	170	0.62
		02/20/2008	ORIG	1900	180	0.47 U
		09/16/2008	ORIG	1900	170	0.62

Table A3-1
Omega Chemical Superfund Site
Tetrachloroethene, Trichloroethene, and 1,4-Dioxane Analytical Summary
Groundwater Analytical Results

Well ID/ Screened Interval		Sample Date	Sample Type	PCE (5)	TCE (5)	1,4-Dioxane (3#)
OW3	63 - 83	03/04/2009	ORIG	1800	150	0.47 U
		09/01/2009	ORIG	3200	240	0.54
		03/04/2010	ORIG	3600	350	1.9
		09/01/2010	ORIG	2200	190	0.76
		02/03/2011	ORIG	1200	180	7.2
		08/24/2011	ORIG	860	110	15 J
		02/22/2012	ORIG	500	60	6
		02/22/2012	DUP	450	54	5.3
OW3B	112 - 122	03/13/2006	ORIG	11	1 U	0.48 U
		08/22/2006	ORIG	2.5	1 U	0.47 U
		08/22/2006	DUP	2.6	1 U	0.47 U
		02/20/2007	ORIG	1.8	1 U	0.47 U
		08/21/2007	ORIG	2.6	1 U	0.47 U
		08/21/2007	N	1 U	1 U	0.47 U
		02/19/2008	ORIG	3.5	1 U	0.47 U
		09/18/2008	ORIG	3.3	1 U	0.47 U
		03/05/2009	ORIG	5.8	1 U	0.47 U
		09/01/2009	ORIG	7.4	1 U	0.47 U
		09/01/2009	DUP	7.6	1 U	0.47 U
		03/04/2010	ORIG	4.8	1.5	0.47 U
		03/04/2010	N	1 U	1 U	0.47 U
		03/04/2010	DUP	4.6	1.7	0.47 U
		09/01/2010	ORIG	5.5	2.7	0.47 U
		09/01/2010	DUP	5.4	2.8	0.47 U
		02/02/2011	ORIG	3.9	0.48 J	0.48 U
		02/02/2011	N	1 U	1 U	0.51 U
		08/24/2011	ORIG	4.4	1 U	0.49 U
		08/24/2011	N	1 U	1 U	1.5 J
		02/22/2012	ORIG	4.2	1 U	0.47 U
OW4A	49.8 - 69.8	05/16/2001	ORIG	1000	120	--
		08/16/2001	ORIG	1300	180	--
		11/16/2001	ORIG	9.8	30	4.9
		02/15/2002	ORIG	130	48	11
		08/21/2002	ORIG	87	50	14
		02/20/2003	ORIG	37	30	0.88
		03/14/2003	ORIG	250	25	1.8
		08/27/2003	ORIG	67	32	1 UB
		02/27/2004	ORIG	12	31	0.5 U
		08/25/2004	ORIG	68	12	1.8
		08/25/2004	DUP	75	13	1.9
		02/25/2005	ORIG	49	8.4	1.1
		08/25/2005	ORIG	180	19	4.1

Table A3-1
Omega Chemical Superfund Site
Tetrachloroethene, Trichloroethene, and 1,4-Dioxane Analytical Summary
Groundwater Analytical Results

Well ID/ Screened Interval		Sample Date	Sample Type	PCE (5)	TCE (5)	1,4-Dioxane (3#)
OW4A	49.8 - 69.8	02/22/2006	ORIG	150	17	6.7
		08/23/2006	ORIG	290	29	10
		02/20/2007	ORIG	24	5.1	4.1
		08/23/2007	ORIG	150	16	5.4
		02/20/2008	ORIG	9.1	4.2	0.47 U
		09/17/2008	ORIG	56	6.2	1.2
		03/04/2009	ORIG	67	9	1.2
		09/03/2009	ORIG	16	3.7	0.47 U
		09/03/2009	DUP	15	3.6	0.47 U
		03/03/2010	ORIG	7.8	1.4	0.47 U
		03/03/2010	DUP	8.3	1.5	0.47 U
		08/31/2010	ORIG	8	1.3	0.47 U
		08/31/2010	N	1 U	1 U	0.47 U
		08/31/2010	DUP	8.2	1.4	0.47 U
		02/02/2011	ORIG	29	2.3	0.49 U
OW4B	112 - 122.3	08/23/2011	SPLIT	11	0.87	1 U
		08/23/2011	ORIG	15	0.99 J	0.5 U
		02/22/2012	ORIG	18	1.6	0.47 U
		04/03/2001	ORIG	1 U	1 U	--
		05/16/2001	ORIG	1.2	1 U	--
		08/16/2001	ORIG	1.2	1 U	--
		11/16/2001	ORIG	1.9	1 U	0.53 U
		02/15/2002	ORIG	1.9	1 U	0.51 U
		08/21/2002	ORIG	12	7.9	0.5 U
		02/20/2003	ORIG	41	3.7	0.5 U
		08/27/2003	ORIG	33	3	0.6 UB
		02/27/2004	ORIG	14	0.31 J	0.5 U
		08/25/2004	ORIG	1.6	1 U	0.5 U
		02/25/2005	ORIG	1.9	1 U	0.5 U
		08/25/2005	ORIG	1.5	1 U	0.5 U
		02/22/2006	ORIG	1.5	1 U	0.47 U
		08/23/2006	ORIG	0.98 J	1 U	0.47 U
		02/20/2007	ORIG	1.3	0.52 J	0.82
		08/23/2007	ORIG	1.5	1 U	0.47 U
		08/23/2007	N	1 U	1 U	--
		02/20/2008	ORIG	1.1	1 U	0.47 U
		09/17/2008	ORIG	3.1	0.31 J	0.73
		03/05/2009	ORIG	14	0.95 J	0.47 U
		09/03/2009	ORIG	2.3	1 U	0.48 U
		09/03/2009	N	1 U	1 U	0.48 U
		03/03/2010	ORIG	2.2	1 U	0.47 U
		08/31/2010	ORIG	2.9	1 U	0.47 U
		02/02/2011	ORIG	4.5	0.29 J	0.48 U

Table A3-1
Omega Chemical Superfund Site
Tetrachloroethene, Trichloroethene, and 1,4-Dioxane Analytical Summary
Groundwater Analytical Results

Well ID/ Screened Interval		Sample Date	Sample Type	PCE (5)	TCE (5)	1,4-Dioxane (3#)
OW4B	112 - 122.3	02/02/2011	DUP	4.8	0.32 J	0.48 U
		08/23/2011	ORIG	3.6 J	1 U	0.47 U
		08/23/2011	N	1 U	1 U	1.2 J
		08/23/2011	DUP	26 J	3	0.47 U
		02/22/2012	ORIG	3.5	0.27 J	0.47 U
OW5	30 - 50	08/17/2001	ORIG	150	510	--
		08/17/2001	DUP	190	550	--
		11/16/2001	ORIG	130	470	0.76
		11/16/2001	DUP	130	570	0.88
		02/15/2002	ORIG	130	390	1.1
		02/15/2002	DUP	120	410	0.98
		08/22/2002	ORIG	150	300	--
		02/21/2003	ORIG	440	810	--
		08/28/2003	ORIG	25	34	0.58
		02/24/2004	ORIG	1500	420	68
		08/25/2004	ORIG	1800	320	85
		02/24/2005	ORIG	230	110	10
		08/22/2005	ORIG	2400	430	95
		02/17/2006	ORIG	2000	500	120
		08/24/2006	ORIG	2300	580	27
		02/20/2007	ORIG	2900	650	150
		08/22/2007	ORIG	2400	560	110
OW6	38 - 58	02/21/2008	ORIG	1400	240	58
		09/18/2008	ORIG	840	150	47
		09/18/2008	N	1 U	1 U	0.59 U
		03/03/2009	ORIG	190	74	6.6
		03/03/2009	N	1 U	1 U	0.47 U
OW6	38 - 58	09/02/2009	ORIG	55	330	1.4
		05/16/2001	ORIG	28	4	--
		08/17/2001	ORIG	24	4 U	--
		11/16/2001	ORIG	140	22	4
		02/15/2002	ORIG	69	13	0.86
		08/21/2002	ORIG	21	3.9	--
		02/21/2003	ORIG	72	15	--
		08/28/2003	ORIG	22	3.6	0.85
		02/25/2004	ORIG	17	2.5	0.7
		08/25/2004	ORIG	18	0.87 J	0.5 U
		02/23/2005	ORIG	43	1	0.5 U
		08/24/2005	ORIG	65	2.3	2.3
		02/17/2006	ORIG	60	0.93 J	0.47 U
		08/24/2006	ORIG	34	0.9 J	1.9 U
		02/22/2007	ORIG	26	0.84 J	0.47 U

Table A3-1
Omega Chemical Superfund Site
Tetrachloroethene, Trichloroethene, and 1,4-Dioxane Analytical Summary
Groundwater Analytical Results

Well ID/ Screened Interval		Sample Date	Sample Type	PCE (5)	TCE (5)	1,4-Dioxane (3#)
OW6	38 - 58	08/23/2007	ORIG	22	0.67 J	0.47 U
		02/21/2008	ORIG	48	0.94 J	0.47 U
		02/21/2008	N	1 U	1 U	0.5 U
		09/17/2008	ORIG	29	0.43 J	0.47 U
		03/03/2009	ORIG	70	0.68 J	0.47 U
		09/02/2009	ORIG	62	1.8	0.48 U
		09/02/2009	N	1 U	1 U	0.5 U
OW7	70.9 - 90.9	03/27/2002	ORIG	5.6	1.2	0.5 U
		08/21/2002	ORIG	8.2	2	--
		02/21/2003	ORIG	12	1.8	--
		08/26/2003	ORIG	7.9	1 U	0.5 U
		02/25/2004	ORIG	20	1.4	0.5 U
		08/25/2004	ORIG	7.4	1.3	0.5 U
		02/24/2005	ORIG	9.3	1.6	0.5 U
		08/22/2005	ORIG	5.8	1.3	0.59
		02/17/2006	ORIG	5.3	1	0.47 U
		08/22/2006	ORIG	6.8	1.1	0.47 U
		02/20/2007	ORIG	6	0.76 J	0.47 U
		08/23/2007	ORIG	41	0.93 J	0.47 U
		02/21/2008	ORIG	9.2	0.38 J	--
		09/16/2008	ORIG	6	1 U	0.48 U
		03/03/2009	ORIG	2.6	0.33 J	0.47 U
		09/01/2009	ORIG	2.3	0.35 J	0.47 U
		03/02/2010	ORIG	3.1	0.34 J	0.72
		08/31/2010	ORIG	5	0.49 J	0.47 U
		02/02/2011	ORIG	5.7	1 U	0.48 U
		08/23/2011	ORIG	5.8	1 U	0.47 U
		02/22/2012	ORIG	8.3	1 U	0.47 U
		02/22/2012	N	1 U	1 U	0.47 U
OW8	60.4 - 80	03/27/2002	ORIG	11000	930	1000
		08/22/2002	ORIG	9400	910	830
		08/22/2002	DUP	10000	840	840
		02/20/2003	ORIG	11000	910	240
		02/20/2003	DUP	13000	1000	180
		03/11/2003	ORIG	34000	2200	2600
		03/11/2003	DUP	36000	2100	2600
		08/27/2003	ORIG	12000	880	98
		08/27/2003	DUP	14000	990	89
		11/20/2003	ORIG	35000	1600	2700
		02/24/2004	ORIG	17000	1000	210
		08/24/2004	ORIG	3400	1600	5300
		02/23/2005	ORIG	68000	3300	6900

Table A3-1
Omega Chemical Superfund Site
Tetrachloroethene, Trichloroethene, and 1,4-Dioxane Analytical Summary
Groundwater Analytical Results

Well ID/ Screened Interval		Sample Date	Sample Type	PCE (5)	TCE (5)	1,4-Dioxane (3#)
OW8	60.4 - 80	02/23/2005	DUP	62000	3400	6300
		08/24/2005	ORIG	68000	3000	3900
		08/24/2005	DUP	72000	2900	6000
		02/21/2006	ORIG	33000	2000	480
		02/21/2006	DUP	35000	1800	2100
		03/13/2006	ORIG	27000	1200	2800
		08/24/2006	ORIG	17000	890	250
		08/24/2006	DUP	16000	870	390
		08/21/2007	ORIG	6500	290	220
		02/19/2008	ORIG	7400	470	270
		09/16/2008	ORIG	14000	680	830
OW8B	116 - 126	03/05/2009	ORIG	33000	1400	1000
		08/24/2004	ORIG	2.1	1 U	0.5 U
		02/23/2005	ORIG	2.7	1 U	0.5 U
		08/25/2005	ORIG	3.6	1 U	0.5 U
		02/21/2006	ORIG	3.1	1 U	0.47 U
		08/22/2006	ORIG	3	1 U	0.48 U
		08/21/2007	ORIG	5.6	0.44 J	0.47 U
		02/19/2008	ORIG	6.1	1 U	0.47 U
		09/16/2008	ORIG	12	0.28 J	0.48 U
		09/16/2008	N	1 U	1 U	0.48 U
		03/05/2009	ORIG	12	1 U	0.47 U
		03/05/2009	N	1 U	1 U	0.52 U
		09/01/2009	ORIG	10	1 U	0.47 U
		03/04/2010	ORIG	7.2	1 U	0.47 U
		09/01/2010	ORIG	6.8	1 U	0.47 U
		09/01/2010	N	1 U	1 U	0.47 U
		02/03/2011	ORIG	7.2	1 U	0.47 U
		02/03/2011	N	1 U	1 U	0.47 U
		08/24/2011	ORIG	3.8	1 U	0.49 U
		02/21/2012	ORIG	2.4	1 U	0.48 U
OW9	70 - 90	03/03/2009	ORIG	28000	1200	1000
		03/03/2009	DUP	26000	1100	890
		09/01/2009	ORIG	26000	1100	830
		09/01/2009	N	1 U	1 U	0.47 U
		12/29/2009	ORIG	20000	920	630
		12/29/2009	DUP	18000	930	740
		03/02/2010	ORIG	18000	1300	910
		03/02/2010	N	1 U	1 U	0.47 U
		06/23/2010	ORIG	15000	630	700
		06/23/2010	DUP	15000	670	560
		08/31/2010	ORIG	20000	830	930

Table A3-1
Omega Chemical Superfund Site
Tetrachloroethene, Trichloroethene, and 1,4-Dioxane Analytical Summary
Groundwater Analytical Results

Well ID/ Screened Interval		Sample Date	Sample Type	PCE (5)	TCE (5)	1,4-Dioxane (3#)
OW9	70 - 90	02/02/2011	ORIG	23000	1500	1600
		08/24/2011	SPLIT	19000	1300	2000 J
		08/24/2011	ORIG	21000	1400	1400 J
		08/24/2011	DUP	22000	1400	1400 J
		02/21/2012	ORIG	9000	440	520
		02/21/2012	DUP	9600	450	540
OW10	69.5 - 89.5	03/04/2009	ORIG	220	23	0.47 U
		09/02/2009	ORIG	200	20	0.47 U
		12/29/2009	ORIG	210	19	0.47 U
		12/29/2009	N	1 U	1 U	0.47 U
		03/03/2010	ORIG	150	16	0.47 U
		06/23/2010	ORIG	110	8.6	0.47 U
		06/23/2010	N	1 U	1 U	0.47 U
		09/01/2010	ORIG	120	9.8	0.47 U
		02/03/2011	ORIG	68	6.6	0.47 U
		02/03/2011	DUP	79	6.4	0.47 U
		08/24/2011	ORIG	57	3.7	0.47 U
PZ3	69.8 - 89.8	02/22/2012	ORIG	390	57	0.47 U
		02/21/2012	ORIG	50	11	0.47 U
PZ5	83 - 98	02/21/2012	N	1 U	1 U	0.53 U
		02/21/2012	ORIG	90	8.7	0.47 U
PZ6	82 - 97	02/22/2012	ORIG			

Notes:

Concentrations are reported in micrograms per liter (ug/l).

U = Not detected at a concentration greater than the reporting limit shown.

J = Estimated concentration below reporting limit.

PCE = Tetrachloroethene; TCE = Trichloroethene;

Screened interval is shown in feet below ground surface.

1,4-dioxane analyzed by EPA Method 8270 modified and PCE and TCE analyzed by Samples analyzed by EPA Methods 502.2, 524.2, 8240 or 8260.

Sample Type:

ORIG = Original sample

DUP = Duplicate sample

N = Equipment decontamination blank

California Maximum Contaminant Levels (MCLs) are shown in parenthesis

= California Notification Level

Table A3-2
Omega Chemical Superfund Site
Chlorinated VOCs Analytical Summary
Groundwater Analytical Results

Well ID/ Screened Interval	Sample Date	Sample Type	1,1,1- TCA	1,1,2- TCA	PCA	1,1-DCE	cis- 1,2-DCE	trans- 1,2-DCE	1,1-DCA	1,2-DCA	1,2-DCB	1,4-DCB	CBN	1,2,3-TCB	CFM	MC	Freon 113	Freon 11	Freon 12	
			(200)	(5)		(6)	(6)	(10)	(5)	(0.5)	(600)	(5)	(70)	(0.5)	(80)	(5)	(1200)	(150)	(1000#)	
EW-1 72 - 87																				
09/13/2006	ORIG		1.7	1 U	1 U	50	1 U	0.69 J	0.63 J	0.5 U	1 U	1 U	1 U	1 U	2.3	5 U	190	61	5 U	
09/14/2006	ORIG		2.4	1 U	1 U	84	1 U	1.2	1.2	0.5 U	1 U	1 U	1 U	1 U	7	5 U	210	62	5 U	
02/22/2007	ORIG		1.2	1 U	1 U	34	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	170	51	5 U	
08/22/2007	ORIG		1.4	1 U	1 U	42	1 U	1 U	0.37 J	0.5 U	1 U	1 U	1 U	1 U	0.47 J	5 U	160	55	5 U	
08/22/2007	N		1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	
02/19/2008	ORIG		4.1	1 U	1 U	62	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	310	88	5 U	
02/19/2008	N		1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	
09/16/2008	ORIG		2.8	1 U	1 U	61	1 U	0.71 J	0.84 J	0.5 U	1 U	1 U	1 U	1 U	1.5	5 U	300	58	5 U	
06/22/2009	ORIG		25 U	25 U	25 U	110	25 U	25 U	25 U	12 U	25 U	25 U	25 U	25 U	25 U	120 U	--	79	120 U	
08/13/2009	ORIG		4 U	4 U	4 U	72	4 U	4 U	4 U	3.8	4 U	4 U	4 U	4 U	4 U	17	20 U	360	71	20 U
08/27/2009	ORIG		10 U	10 U	10 U	110	10 U	10 U	10 U	5 U	10 U	10 U	10 U	10 U	10 U	50 U	260	66	50 U	
09/24/2009	ORIG		10 U	10 U	10 U	73	10 U	10 U	10 U	5 U	10 U	10 U	10 U	10 U	10 U	50 U	270	60	50 U	
12/22/2009	ORIG		5 U	5 U	5 U	170	5 U	5 U	5 U	2.5 U	5 U	5 U	5 U	5 U	5.2	25 U	340	72	25 U	
03/04/2010	ORIG		4 U	4 U	4 U	160	4 U	4 U	4 U	2 U	4 U	4 U	4 U	4 U	4.6	20 U	330	90	20 U	
09/09/2010	ORIG		1 U	1 U	1 U	120	1 U	0.53 J	1.1	0.5 U	1 U	1 U	1 U	1 U	3.2	5 U	240	59	5 U	
02/03/2011	ORIG		10 U	10 U	10 U	110	10 U	10 U	10 U	5 U	10 U	10 U	10 U	10 U	10 U	50 U	150	37	50 U	
08/24/2011	ORIG		20 U	20 U	20 U	150	20 U	20 U	20 U	10 U	20 U	20 U	20 U	20 U	20 U	100 U	120	34	100 U	
02/21/2012	ORIG		1 U	1 U	1 U	160	1 U	1 U	1.2	1 U	1 U	1 U	1 U	1 U	3.2	5 U	5 U	50	1 U	
EW-2 72 - 87																				
09/13/2006	ORIG		150	6 J	20 U	930	19 J	29	46	340	6.4 J	20 U	20 U	20 U	1500	540	780	310	100 U	
09/14/2006	ORIG		120	14	4.5	670	17	26	42	250	9.5 U	0.58 J	1.6	1 U	1100	750	700	240	5 U	
08/22/2007	ORIG		120	4.4	1	730	20	17	35	270	2.6	0.48 J	1.2	1 U	1200	55	640	230	0.94 J	
08/22/2007	DUP		110	4.1	1.3	740	19	17	34	270	2.5	0.48 J	1.2	1 U	1200	51	650	240	0.75 J	
02/20/2008	ORIG		110	100 U	100 U	890	100 U	100 U	40 J	280	100 U	100 U	100 U	1100	96 J	740	210	500 U		
02/20/2008	N		1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	0.3 J	1 U	5 U	5 U	1 U	5 U		
02/20/2008	DUP		79 J	100 U	100 U	910	100 U	100 U	30 J	180	100 U	100 U	100 U	100 U	860	500 U	470 J	140	500 U	
09/16/2008	ORIG		97 J	100 U	100 U	1100	100 U	100 U	100 U	200	100 U	100 U	100 U	100 U	1000	500 U	620	180	500 U	
09/16/2008	DUP		100	100 U	100 U	810	100 U	100 U	41 J	210	100 U	100 U	100 U	1100	500 U	490 J	170	500 U		
06/22/2009	ORIG		1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	500 U	1000 U	1000 U	1000 U	1000 U	1000 U	5000 U	--	1000 U	5000 U		
08/13/2009	ORIG		40 U	40 U	40 U	350	40 U	40 U	40 U	94	40 U	40 U	40 U	40 U	390	200 U	1000	200	200 U	
08/27/2009	ORIG		100 U	100 U	100 U	340	100 U	100 U	100 U	50 U	100 U	100 U	100 U	100 U	180	500 U	530	130	500 U	
12/22/2009	ORIG		50 U	50 U	50 U	290	50 U	50 U	50 U	25 U	50 U	50 U	50 U	50 U	100	250 U	570	130	250 U	

Table A3-2
Omega Chemical Superfund Site
Chlorinated VOCs Analytical Summary
Groundwater Analytical Results

Well ID/ Screened Interval	Sample Date	Sample Type	1,1,1- TCA (200)	1,1,2- TCA (5)	PCA	1,1-DCE (6)	cis- 1,2-DCE (6)	trans- 1,2-DCE (10)	1,1-DCA (5)	1,2-DCA (0.5)	1,2-DCB (600)	1,4-DCB (5)	CBN (70)	1,2,3-TCB (0.5)	CFM (80)	MC (5)	Freon 113 (1200)	Freon 11 (150)	Freon 12 (1000#)
	03/04/2010	ORIG	6.5 J	10 U	10 U	240	10 U	5.1 J	5.2 J	23	10 U	10 U	10 U	10 U	90	50 U	550	130	50 U
	09/09/2010	ORIG	5.9 J	10 U	10 U	230	10 U	3.5 J	10 U	15	10 U	10 U	10 U	10 U	71	50 U	450	100	50 U
	02/03/2011	ORIG	50 U	50 U	50 U	210	50 U	50 U	50 U	25 U	50 U	50 U	50 U	50 U	76	250 U	290	70	250 U
	08/24/2011	ORIG	100 U	100 U	100 U	200	100 U	100 U	50 U	100 U	100 U	100 U	100 U	100 U	500 U	500 U	100 U	500 U	
	02/21/2012	ORIG	4.5	1.3	1.2	180	1 U	2.4	3.6	12	1 U	1 U	1 U	1 U	79	5 U	5 U	70	1 U
EW-3	70 - 85																		
	09/13/2006	ORIG	3.7 J	10 U	10 U	500	3.6 J	10 U	5.6 J	5 U	10 U	10 U	10 U	10 U	56	50 U	120	85	50 U
	09/14/2006	ORIG	3.4	1 U	1 U	370	2.4	1.8	5.7	0.63	1 U	1 U	1 U	1 U	71	5 U	120	71	5 U
	06/22/2009	ORIG	50 U	50 U	50 U	420	50 U	50 U	50 U	25 U	50 U	50 U	50 U	50 U	50 U	250 U	--	65	250 U
	08/13/2009	ORIG	5 U	5 U	5 U	520	5 U	5 U	2.5 U	5 U	5 U	5 U	5 U	5 U	32	25 U	320	170	25 U
	09/02/2009	ORIG	1 U	1 U	1 U	580	1 U	1 U	2.3	0.58	1 U	1 U	1 U	1 U	25	5 U	160	100	5 U
	09/24/2009	ORIG	10 U	10 U	10 U	470	10 U	10 U	10 U	5 U	10 U	10 U	10 U	10 U	53	50 U	120	76	50 U
	12/22/2009	ORIG	20 U	20 U	20 U	680	20 U	20 U	20 U	10 U	20 U	20 U	20 U	20 U	39	100 U	310	170	100 U
	03/04/2010	ORIG	5 U	5 U	5 U	580	5 U	5 U	3.5 J	2.5 U	5 U	5 U	5 U	5 U	44	25 U	270	170	25 U
	09/09/2010	ORIG	2 U	2 U	2 U	360	2 U	2 U	1.9 J	0.62 J	2 U	2 U	2 U	2 U	25	12	300	190	10 U
	02/03/2011	ORIG	20 U	20 U	20 U	350	20 U	20 U	20 U	10 U	20 U	20 U	20 U	20 U	22	100 U	240	150	100 U
	08/24/2011	ORIG	20 U	20 U	20 U	310	20 U	20 U	20 U	10 U	20 U	20 U	20 U	20 U	22	100 U	230	130	100 U
	02/21/2012	ORIG	20 U	20 U	20 U	200	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	100 U	170	97	20 U
EW-4	71 - 86																		
	09/13/2006	ORIG	3.8	2 U	2 U	720	1.2 J	0.78 J	2.9	1 U	2 U	2 U	2 U	2 U	19	10 U	170	90	10 U
	09/13/2006	DUP	3.4	1 U	1 U	640	0.88 J	0.5 J	2.3	0.5 U	1 U	1 U	1 U	1 U	17	5 U	140	70	5 U
	09/14/2006	ORIG	2.9	1 U	1 U	580	0.84 J	0.48 J	2.1	0.5 U	1 U	1 U	1 U	1 U	16	5 U	140	71	5 U
	06/22/2009	ORIG	25 U	25 U	25 U	410	25 U	25 U	25 U	12 U	25 U	25 U	25 U	25 U	25 U	120 U	--	54	120 U
	08/13/2009	ORIG	2.5 U	2.5 U	2.5 U	420	2.5 U	2.5 U	2.5 U	1.2 U	2.5 U	2.5 U	2.5 U	2.5 U	5.7	12 U	160	89	12 U
	08/27/2009	ORIG	10 U	10 U	10 U	480	10 U	10 U	10 U	5 U	10 U	10 U	10 U	10 U	10 U	50 U	130	87	50 U
	09/24/2009	ORIG	10 U	10 U	10 U	360	10 U	10 U	10 U	5 U	10 U	10 U	10 U	10 U	10 U	50 U	140	81	50 U
	12/22/2009	ORIG	5 U	5 U	5 U	430	5 U	5 U	5 U	2.5 U	5 U	5 U	5 U	5 U	5 U	25 U	140	84	25 U
	03/04/2010	ORIG	1 U	1 U	1 U	240	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2.1	2.1 J	99	74	5 U
	09/09/2010	ORIG	1 U	1 U	1 U	130	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1.2	5 U	75	54	5 U
	02/03/2011	ORIG	5 U	5 U	5 U	130	5 U	5 U	5 U	2.5 U	5 U	5 U	5 U	5 U	5 U	25 U	65	42	25 U
	08/24/2011	ORIG	5 U	5 U	5 U	110	5 U	5 U	5 U	2.5 U	5 U	5 U	5 U	5 U	5.9	25 U	59	37	25 U
	02/21/2012	ORIG	2 U	2 U	2 U	85	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	10 U	35	20	2 U

Table A3-2
Omega Chemical Superfund Site
Chlorinated VOCs Analytical Summary
Groundwater Analytical Results

Well ID/ Screened Interval	Sample Date	Sample Type	1,1,1- TCA (200)	1,1,2- TCA (5)	PCA	1,1-DCE (6)	cis- 1,2-DCE (6)	trans- 1,2-DCE (10)	1,1-DCA (5)	1,2-DCA (0.5)	1,2-DCB (600)	1,4-DCB (5)	CBN (70)	1,2,3-TCB (0.5)	CFM (80)	MC (5)	Freon 113 (1200)	Freon 11 (150)	Freon 12 (1000#)
EW-5 70 - 85																			
	09/13/2006	ORIG	0.79 J	1 U	1 U	290	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.59 J	5 U	160	79	5 U
	09/14/2006	ORIG	1.1	1 U	1 U	360	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.91 J	5 U	190	92	5 U
	09/14/2006	DUP	1.2	1 U	1 U	370	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.96 J	5 U	150	100	5 U
	06/22/2009	ORIG	2.5 U	2.5 U	2.5 U	72	2.5 U	2.5 U	2.5 U	1.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	12 U	--	29	12 U
	08/13/2009	ORIG	1 U	1 U	1 U	61	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	78	53	5 U
	08/27/2009	ORIG	1 U	1 U	1 U	74	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	67	52	5 U
	09/24/2009	ORIG	2 U	2 U	2 U	76	2 U	2 U	2 U	1 U	2 U	2 U	2 U	2 U	2 U	10 U	52	39	10 U
	12/22/2009	ORIG	1 U	1 U	1 U	110	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	86	57	5 U
	03/04/2010	ORIG	1 U	1 U	1 U	84	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	2.4 J	58	51	5 U
	09/09/2010	ORIG	1 U	1 U	1 U	70	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	76	61	5 U
	02/03/2011	ORIG	1 U	1 U	1 U	73	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	59	43	5 U
	08/24/2011	ORIG	1 U	1 U	1 U	120	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	61	44	5 U
	02/21/2012	ORIG	1 U	1 U	1 U	83	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	65	44	1 U
OW1 62.5 - 77.5																			
	06/06/1996	ORIG	12000	500 U		3600	500 U	500 U	500 U	2600	500 U	500 U	500 U	500 U	3200	15000	1400	990	--
	07/02/1999	ORIG	2100	4.6	2.6	1200	5.4	160	86	120	0.97	1 U	2	1 U	400	110	1300	550	5 U
	05/16/2001	ORIG	8900	20 U	20 U	2700	20 U	100	130	87	20 U	20 U	20 U	20 U	500	490	720	410	100 U
	08/17/2001	ORIG	5800	100 U	100 U	2100	100 U	100 U	100 U	62	100 U	100 U	100 U	100 U	380	500 U	1400	620	500 U
	11/15/2001	ORIG	2200	2.2	4.7	1300	4	74	54	40	1 U	1 U	1.8	1 U	280	21	1400	590	5 U
	02/14/2002	ORIG	2200	100 U	100 U	1200	100 U	100 U	100 U	50 U	100 U	100 U	100 U	100 U	280	500 U	1300	480	500 U
	08/20/2002	ORIG	3100	200 U	200 U	1300	200 U	200 U	200 U	100 U	200 U	200 U	200 U	200 U	320	1000 U	1100	600	1000 U
	02/19/2003	ORIG	10000	4.7	32	2600	8.6	39	88	84	15	3	7.8	1 U	500	72	510	120	5 U
	08/26/2003	ORIG	7000	1.4	19	1600	7.2	43	71	53	4.5	1.2	4.1	1 U	360	42	380	170	5 U
	08/26/2003	DUP													--	--	--	--	
	02/24/2004	ORIG	9600	0.58 J	12	2100	4.5	21	52	22	7	1.7	3.4	1 U	81	53	380 J	55	5 U
	08/27/2004	ORIG	8500	400 U	400 U	1900	400 U	400 U	400 U	200 U	400 U	400 U	400 U	400 U	400 U	2000 U	2000 U	400 U	2000 U
	08/27/2004	DUP	12000	0.35 J	5.3	2000	4.6	15	45	12	3.8	0.89 J	1.9	1 U	59	41	150	22	5 U
	02/25/2005	ORIG	6500	1 U	5	1300	3.4	13	41	7.2	5.3	1.3	2.5	1 U	52	42	94	13	5 U
	08/24/2005	ORIG	14000	5 U	16	5100	6.8	22	67	39	4.6 J	5 U	2.8 J	5 U	100	48	160	66	25 U
	02/22/2006	ORIG	4600	200 U	200 U	1500	200 U	200 U	200 U	100 U	200 U	200 U	200 U	200 U	98 J	1000 U	1000 U	200 U	1000 U
	03/13/2006	ORIG	3700	630 U	630 U	1500	630 U	630 U	630 U	630 U	630 U	630 U	630 U	630 U	630 U	13000 U	6300 U	1300 U	1300 U
	08/24/2006	ORIG	3200	1 U	22	1000	6	22	48	25	4.2	1.1	5	1 U	120	34	140	59	5 U

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Chlorinated VOCs Analytical Summary
Groundwater Analytical Results

Well ID/ Screened Interval	Sample Date	Sample Type	1,1,1- TCA (200)	1,1,2- TCA (5)	PCA	1,1-DCE (6)	cis- 1,2-DCE (6)	trans- 1,2-DCE (10)	1,1-DCA (5)	1,2-DCA (0.5)	1,2-DCB (600)	1,4-DCB (5)	CBN (70)	1,2,3-TCB (0.5)	CFM (80)	MC (5)	Freon 113 (1200)	Freon 11 (150)	Freon 12 (1000#)	
	02/22/2007	ORIG	3700	0.47 J	16	1000	5.6	25	42	20	3.7	1 U	4.6	1 U	110	24	100	51	5 U	
	02/22/2007	DUP	3700	0.54 J	17	1000	6.2	26	43	19	3.8	1 U	4.6	1 U	110	25	100	48	5 U	
	08/23/2007	ORIG	2200	200 U	200 U	700	200 U	200 U	200 U	100 U	200 U	200 U	200 U	200 U	130 J	1000 U	1000 U	200 U	1000 U	
	08/23/2007	DUP	2200	200 U	200 U	710	200 U	200 U	200 U	100 U	200 U	200 U	200 U	200 U	130 J	1000 U	1000 U	200 U	1000 U	
	02/20/2008	ORIG	2600	200 U	58 J	730	200 U	200 U	200 U	100 U	200 U	200 U	200 U	200 U	130 J	480 J	1000 U	200 U	1000 U	
	02/20/2008	DUP	2200	1000 U	1000 U	590 J	1000 U	1000 U	1000 U	500 U	1000 U	1000 U	1000 U	1000 U	1000 U	5000 U	5000 U	1000 U	5000 U	
	09/18/2008	ORIG	1200	250 U	250 U	490	250 U	250 U	250 U	120 U	250 U	250 U	250 U	250 U	100 J	1200 U	1200 U	250 U	1200 U	
	09/18/2008	DUP	1000	100 U	100 U	680	100 U	100 U	100 U	31 J	100 U	100 U	100 U	100 U	97 J	500 U	500 U	100 U	500 U	
	03/05/2009	ORIG	2000	1000 U	1000 U	580 J	1000 U	1000 U	1000 U	500 U	1000 U	1000 U	1000 U	1000 U	1000 U	5000 U	5000 U	1000 U	5000 U	
	03/05/2009	DUP	1800	1000 U	1000 U	490 J	1000 U	1000 U	1000 U	500 U	1000 U	1000 U	1000 U	1000 U	1000 U	5000 U	5000 U	1000 U	5000 U	
	09/02/2009	ORIG	1900	10 U	17	560	34	11	41	17	18	10 U	6.8 J	10 U	42	50 U	42 J	4.4 J	50 U	
OW1b	110 - 120																			
	07/02/1999	ORIG	7.4	0.5 U	1 U	11	0.5 U	0.65	2.4	8.8	0.5 U	1 U	1 U	1 U	6.6	10 U	12	2.9	5 U	
	07/02/1999	DUP	7.8	0.5 U	1 U	13	0.5 U	0.78	2.8	10	0.5 U	1 U	1 U	1 U	7.7	10 U	12	3	5 U	
	05/16/2001	ORIG	1 U	1 U	1 U	1.9	2.7	1 U	1 U	2.9	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	
	05/16/2001	DUP	1 U	1 U	1 U	1 U	2.4	1 U	1 U	2.2	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	
	08/17/2001	ORIG	1 U	1 U	1 U	1 U	1.7	1 U	1 U	1.2	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	
	11/16/2001	ORIG	6	1 U	1 U	1.6	1.4	1 U	1 U	1	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	
	02/14/2002	ORIG	1 U	1 U	1 U	1 U	1.1	1 U	1 U	0.69	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	
	08/20/2002	ORIG	1 U	1 U	1 U	1.1	1 U	1 U	1 U	0.76	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	
	02/19/2003	ORIG	1 U	1 U	1 U	3.1	1 U	1 U	1 U	0.64	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	
	08/26/2003	ORIG	1.5	1 U	1 U	2.9	1 U	1 U	1 U	1.4	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	
	02/24/2004	ORIG	0.3 J	1 U	1 U	3.4	0.45 J	1 U	0.43 J	0.87	1 U	1 U	1 U	1 U	1 U	1.1	0.8 J	4.8 J	1.8	5 U
	08/27/2004	ORIG	0.84 J	1 U	1 U	2.2	1 U	1 U	1 U	0.41 J	1 U	1 U	1 U	1 U	0.59 J	1.2 UJB	2.5 J	1	5 U	
	02/25/2005	ORIG	0.52 J	1 U	1 U	2.6	1 U	1 U	1 U	0.37 J	1 U	1 U	1 U	1 U	0.6 J	5 U	3.5 J	1.2	5 U	
	08/24/2005	ORIG	1.2	1 U	1 U	2.2	1 U	1 U	0.31 J	0.37 J	1 U	1 U	1 U	1 U	1 U	0.68 J	3.8 J	0.99 J	5 U	
	02/22/2006	ORIG	1 U	1 U	1 U	1.3	1 U	1 U	1 U	0.3 J	1 U	1 U	1 U	1 U	1 U	5 U	2.8 J	0.9 J	5 U	
	08/23/2006	ORIG	1 U	1 U	1 U	0.81 J	1 U	1 U	1 U	0.33 J	1 U	1 U	1 U	1 U	1 U	1.2 J	5.1	1.8	5 U	
	08/22/2007	ORIG	1 U	1 U	1 U	0.57 J	1 U	1 U	1 U	0.46 J	1 U	1 U	1 U	1 U	0.34 J	5 U	6.2	2.7	5 U	
	02/20/2008	ORIG	1 U	1 U	1 U	0.68 J	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	6.1	2.2	5 U	
	03/05/2009	ORIG	1 U	1 U	1 U	0.53 J	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	7.7	2.5	5 U	
	09/03/2009	ORIG	1 U	1 U	1 U	0.45 J	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.33 J	5 U	6.8	3.2	5 U	
	03/03/2010	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	6.9	3.7	5 U	

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Well ID/ Screened Interval	Sample Date	Sample Type	1,1,1- TCA (200)	1,1,2- TCA (5)	PCA	1,1-DCE (6)	cis- 1,2-DCE (6)	trans- 1,2-DCE (10)	1,1-DCA (5)	1,2-DCA (0.5)	1,2-DCB (600)	1,4-DCB (5)	CBN (70)	1,2,3-TCB (0.5)	CFM (80)	MC (5)	Freon 113 (1200)	Freon 11 (150)	Freon 12 (1000#)	
	03/03/2010	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	
	09/01/2010	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	4.9 J	2.8	5 U	
	02/03/2011	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	6.3	3	5 U	
	08/24/2011	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	
	02/21/2012	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	
OW2	60 - 80																			
	07/02/1999	ORIG	8.5	2 U	4 U	680	2 U	2 U	2.8	2 U	2 U	4 U	4 U	4 U	4 U	40 U	2600	610	20 U	
	05/15/2001	ORIG	10 U	10 U	10 U	500	10 U	10 U	10 U	5 U	10 U	10 U	10 U	10 U	10 U	50 U	1100	370	50 U	
	08/17/2001	ORIG	2	1 U	1 U	360	1 U	1 U	1.1	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	1400	330	5 U	
	11/16/2001	ORIG	2.6	1 U	1 U	390	1 U	1 U	1.5	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	1600	390	5 U	
	02/15/2002	ORIG	2.1	1 U	1 U	350	1 U	1 U	1.5	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	1400	380	5 U	
	08/21/2002	ORIG	4 U	4 U	4 U	350	4 U	4 U	4 U	2 U	4 U	4 U	4 U	4 U	4 U	20 U	1400	310	20 U	
	02/19/2003	ORIG	5.9	1 U	1 U	790	1 U	1 U	1.9	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	820	280	5 U	
	03/10/2003	ORIG	3.7	2 U	2 U	680	2 U	2 U	2.1	1 U	2 U	2 U	2 U	2 U	2 U	10 U	660	240	10 U	
	08/27/2003	ORIG	5 U	5 U	5 U	870	5 U	5 U	5 U	2.5 U	5 U	5 U	5 U	5 U	5 U	25 U	750	290	25 U	
	02/24/2004	ORIG	4.2 J	5 U	5 U	930	5 U	5 U	2.5 J	2.5 U	5 U	5 U	5 U	5 U	3.4 J	25 U	420	180	25 U	
	08/24/2004	ORIG	3.3 J	10 U	10 U	1000	10 U	10 U	2.9 J	5 U	10 U	10 U	10 U	10 U	4.4 J	50 U	670	300	50 U	
	02/24/2005	ORIG	10 U	10 U	10 U	970	10 U	10 U	3.9 J	5 U	10 U	10 U	10 U	10 U	5.1 J	50 U	1100	300	50 U	
	08/24/2005	ORIG	2.6 J	5 U	5 U	720	5 U	1.5 J	5	2.5 U	5 U	5 U	5 U	5 U	7.1	25 U	1300	240	25 U	
	02/22/2006	ORIG	5 J	10 U	10 U	1900	10 U	3.6 J	12	5 U	10 U	10 U	10 U	10 U	17	50 U	1200	1000	50 U	
	08/22/2006	ORIG	5 U	5 U	5 U	300	5 U	5 U	2.2 J	2.5 U	5 U	5 U	5 U	5 U	2.9 J	25 U	1400	240	25 U	
	08/22/2007	ORIG	1 U	1 U	1 U	180	1 U	0.39 J	1.8	0.5 U	1 U	1 U	1 U	1 U	2.2	5 U	570	100	5 U	
	02/19/2008	ORIG	10 U	10 U	10 U	450	10 U	10 U	10 U	5 U	10 U	10 U	10 U	10 U	50 U	530	190	50 U		
	09/17/2008	ORIG	5 U	5 U	5 U	330	5 U	1.6 J	4.2 J	2.5 U	5 U	5 U	5 U	5 U	6.9	25 U	600	110	25 U	
	09/17/2008	N	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U		
	03/04/2009	ORIG	20 U	20 U	20 U	550	20 U	20 U	20 U	10 U	20 U	20 U	20 U	20 U	16 J	100 U	1100	170	100 U	
	03/04/2009	N	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U		
OW3	63 - 83																			
	07/02/1999	ORIG	28	2 U	4 U	1200	2 U	2 U	2 U	2 U	2 U	4 U	4 U	4 U	4 U	40 U	800	410	20 U	
	05/16/2001	ORIG	33	20 U	20 U	1700	20 U	20 U	20 U	10 U	20 U	20 U	20 U	20 U	20 U	100 U	430	380	100 U	
	08/17/2001	ORIG	22	4 U	4 U	1500	4 U	4 U	4 U	2 U	4 U	4 U	4 U	4 U	4 U	12	20 U	520	330	20 U
	11/15/2001	ORIG	17	1 U	1 U	1200	1 U	1 U	1.6	0.5 U	1 U	1 U	1 U	1 U	1 U	6.5	5 U	530	300	5 U
	02/15/2002	ORIG	14	4 U	4 U	1100	4 U	4 U	4 U	2 U	4 U	4 U	4 U	4 U	7.7	20 U	530	280	20 U	

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Well ID/ Screened Interval	Sample Date	Sample Type	1,1,1- TCA (200)	1,1,2- TCA (5)	PCA	1,1-DCE (6)	cis- 1,2-DCE (6)	trans- 1,2-DCE (10)	1,1-DCA (5)	1,2-DCA (0.5)	1,2-DCB (600)	1,4-DCB (5)	CBN (70)	1,2,3-TCB (0.5)	CFM (80)	MC (5)	Freon 113 (1200)	Freon 11 (150)	Freon 12 (1000#)
	08/20/2002	ORIG	12	4 U	4 U	130	4 U	4 U	4 U	2 U	4 U	4 U	4 U	4 U	7.4	20 U	360	230	20 U
	02/20/2003	ORIG	9.5	4 U	4 U	1100	4 U	4 U	4 U	2 U	4 U	4 U	4 U	4 U	7	20 U	450	320	20 U
	03/13/2003	ORIG	8.9	4 U	4 U	1400	4 U	4 U	4 U	2 U	4 U	4 U	4 U	4 U	6.8	20 U	430	250	20 U
	08/26/2003	ORIG	9.4	1 U	1 U	1100	1 U	1 U	2	0.5 U	1 U	1 U	1 U	1 U	9.5	5 U	370	300	5 U
	02/25/2004	ORIG	11	10 U	10 U	1500	10 U	10 U	2.8 J	5 U	10 U	10 U	10 U	10 U	14	50 U	390	230	50 U
	02/25/2004	DUP	12	10 U	10 U	1700	10 U	10 U	3.7 J	5 U	10 U	10 U	10 U	10 U	16	8.3 J	400	290	50 U
	08/24/2004	ORIG	7.4	5 U	5 U	1200	5 U	5 U	2.6 J	2.5 U	5 U	5 U	5 U	5 U	16	12 J	340	270	25 U
	02/23/2005	ORIG	6	1 U	1 U	1400	1.2	0.79 J	3	0.5 U	1 U	1 U	1 U	1 U	19	5 U	370	180	0.94 J
	08/24/2005	ORIG	4.2	1 U	1 U	1600	1.5	0.85 J	3.4	0.29 J	1 U	1 U	1 U	1 U	22	5 U	380	260	0.91 J
	02/21/2006	ORIG	5.2	5 U	5 U	1200	5 U	5 U	4.5 J	2.5 U	5 U	5 U	5 U	5 U	39	25 U	280	160	25 U
	08/23/2006	ORIG	2.5	1 U	1 U	630	1.2	0.72 J	2.8	0.5 U	1 U	1 U	1 U	1 U	23	0.89 J	200	140	5 U
	08/21/2007	ORIG	0.85 J	1 U	1 U	340	0.54 J	0.45 J	1.6	0.5 U	1 U	1 U	1 U	1 U	9.4	5 U	110	77	5 U
	02/20/2008	ORIG	5 U	5 U	5 U	410	5 U	5 U	5 U	2.5 U	5 U	5 U	5 U	5 U	7.8	5 J	110	74	25 U
	09/16/2008	ORIG	4 U	4 U	4 U	430	4 U	4 U	4 U	2 U	4 U	4 U	4 U	4 U	7.1	20 U	110	59	20 U
	03/04/2009	ORIG	10 U	10 U	10 U	430	10 U	10 U	10 U	5 U	10 U	10 U	10 U	10 U	12	50 U	98	59	50 U
	09/01/2009	ORIG	1	1 U	1 U	600	1.6	0.97 J	3.6	0.5 U	1 U	1 U	1 U	1 U	33	5 U	120	84	5 U
	03/04/2010	ORIG	5 U	5 U	5 U	800	3 J	1.7 J	6.6	2.5 U	5 U	5 U	5 U	5 U	67	25 U	120	83	25 U
	09/01/2010	ORIG	5 U	5 U	5 U	690	5 U	5 U	2.2 J	2.5 U	5 U	5 U	5 U	5 U	22	25 U	220	130	25 U
	02/03/2011	ORIG	2.5 U	2.5 U	2.5 U	490	1.6 J	2.5 U	3.4	1.2 U	2.5 U	2.5 U	2.5 U	2.5 U	35	12 U	88	46	12 U
	08/24/2011	ORIG	4 U	4 U	4 U	160	1.7 J	4 U	3.3 J	2 U	4 U	4 U	4 U	4 U	42	8.6 J	23	15	20 U
	02/22/2012	ORIG	10 U	10 U	10 U	140	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20	5 U	17 J	12 J	10 U
	02/22/2012	DUP	5 U	5 U	5 U	120	1.6 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	17	25 U	14 J	9.4 J	5 U
OW3B	112 - 122																		
	03/13/2006	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.95 J	5 U	1 U	5 U	
	08/22/2006	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	08/22/2006	DUP	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	02/20/2007	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	08/21/2007	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	08/21/2007	N	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	02/19/2008	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	09/18/2008	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	03/05/2009	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	09/01/2009	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U

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Well ID/ Screened Interval	Sample Date	Sample Type	1,1,1- TCA (200)	1,1,2- TCA (5)	PCA	1,1-DCE (6)	cis- 1,2-DCE (6)	trans- 1,2-DCE (10)	1,1-DCA (5)	1,2-DCA (0.5)	1,2-DCB (600)	1,4-DCB (5)	CBN (70)	1,2,3-TCB (0.5)	CFM (80)	MC (5)	Freon 113 (1200)	Freon 11 (150)	Freon 12 (1000#)
	09/01/2009	DUP	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	03/04/2010	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	03/04/2010	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	03/04/2010	DUP	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	09/01/2010	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	09/01/2010	DUP	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	02/02/2011	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	02/02/2011	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	08/24/2011	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	08/24/2011	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	02/22/2012	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U
OW4A	49.8 - 69.8																		
	05/16/2001	ORIG	20 U	20 U	20 U	1500	20 U	20 U	20 U	10 U	20 U	20 U	20 U	20 U	39	100 U	580	260	100 U
	08/16/2001	ORIG	21	1 U	1 U	2400	1 U	1 U	1.7	3.5	1 U	1 U	1 U	1 U	62	5 U	910	340	5.8
	11/16/2001	ORIG	1 U	1 U	1 U	10	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	32	5 U	5.3	2.2	5 U
	02/15/2002	ORIG	1.6	1 U	1 U	230	1 U	1 U	1 U	0.69	1 U	1 U	1 U	1 U	33	5 U	160	62	5 U
	08/21/2002	ORIG	1 U	1 U	1 U	120	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	37	5 U	88	44	5 U
	02/20/2003	ORIG	1 U	1 U	1 U	79	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	21	5 U	53	23	5 U
	03/14/2003	ORIG	1 U	1 U	1 U	210	1 U	1 U	1 U	0.77	1 U	1 U	1 U	1 U	13	5 U	150	69	5 U
	08/27/2003	ORIG	1 U	1 U	1 U	100	1 U	1 U	1 U	0.5	1 U	1 U	1 U	1 U	21	5 U	5 U	32	5 U
	02/27/2004	ORIG	1 U	1 U	1 U	14	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	22	5 U	11	7	5 U
	08/25/2004	ORIG	0.3 J	1 U	1 U	140	1 U	1 U	1 U	0.45 J	1 U	1 U	1 U	1 U	6.4	1.1 J	230	100	0.87 J
	08/25/2004	DUP	0.32 J	1 U	1 U	130	1 U	1 U	1 U	0.43 J	1 U	1 U	1 U	1 U	6.7	1 J	230	120	0.94 J
	02/25/2005	ORIG	1 U	1 U	1 U	110	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	5	5 U	310	130	5 U
	08/25/2005	ORIG	0.46 J	1 U	1 U	260	1 U	0.32 J	0.45 J	1.9	1 U	1 U	1 U	1 U	14	5 U	360	200	1.1 J
	02/22/2006	ORIG	1 U	1 U	1 U	140	1 U	1 U	0.37 J	1.5	1 U	1 U	1 U	1 U	12	5 U	91	41	5 U
	08/23/2006	ORIG	1 U	1 U	1 U	120	1 U	0.45 J	0.55 J	2.7	1 U	1 U	1 U	1 U	17	5 U	110	53	5 U
	02/20/2007	ORIG	1 U	1 U	1 U	22	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	3.3	5 U	19	9.1	5 U
	08/23/2007	ORIG	1 U	1 U	1 U	66	1 U	1 U	1 U	1.4	1 U	1 U	1 U	1 U	10	5 U	36	24	5 U
	02/20/2008	ORIG	1 U	1 U	1 U	11	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2.5	5 U	9.5	3.6	5 U
	09/17/2008	ORIG	1 U	1 U	1 U	47	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	3.3	5 U	54	26	5 U
	03/04/2009	ORIG	1 U	1 U	1 U	100	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	4.5	5 U	180	70	5 U
	09/03/2009	ORIG	1 U	1 U	1 U	35	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2.1	5 U	69	33	5 U

Table A3-2
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Well ID/ Screened Interval	Sample Date	Sample Type	1,1,1- TCA (200)	1,1,2- TCA (5)	PCA	1,1-DCE (6)	cis- 1,2-DCE (6)	trans- 1,2-DCE (10)	1,1-DCA (5)	1,2-DCA (0.5)	1,2-DCB (600)	1,4-DCB (5)	CBN (70)	1,2,3-TCB (0.5)	CFM (80)	MC (5)	Freon 113 (1200)	Freon 11 (150)	Freon 12 (1000#)
	09/03/2009	DUP	1 U	1 U	1 U	33	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	2	5 U	66	31	5 U
	03/03/2010	ORIG	1 U	1 U	1 U	12	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.68 J	5 U	55	24	5 U
	03/03/2010	DUP	1 U	1 U	1 U	12	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.7 J	5 U	58	25	5 U
	08/31/2010	ORIG	1 U	1 U	1 U	7.5	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.61 J	5 U	26	13	5 U
	08/31/2010	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	08/31/2010	DUP	1 U	1 U	1 U	6.6	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.7 J	5 U	26	13	5 U
	02/02/2011	ORIG	1 U	1 U	1 U	3	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1.7	5 U	1.7 J	0.62 J	5 U
	08/23/2011	SPLIT	0.5 U	0.5 U	0.5 U	5.3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	21	11	1 U
	08/23/2011	ORIG	1 U	1 U	1 U	5.5	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.42 J	5 U	22	14	5 U
	02/22/2012	ORIG	1 U	1 U	1 U	10	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.48 J	5 U	32	23	1 U
OW4B	112 - 122.3																		
	04/03/2001	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	05/16/2001	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	08/16/2001	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	11/16/2001	ORIG	1 U	1 U	1 U	1.2	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	02/15/2002	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	08/21/2002	ORIG	1 U	1 U	1 U	22	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	86	14	5 U
	02/20/2003	ORIG	1 U	1 U	1 U	14	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	30	1 U	5 U
	08/27/2003	ORIG	1 U	1 U	1 U	12	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	30	2	5 U
	02/27/2004	ORIG	1 U	1 U	1 U	1.4	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	4.2 J	1 U	5 U
	08/25/2004	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1.5 J	5 U	1 U	5 U
	02/25/2005	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	08/25/2005	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.41 J	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	02/22/2006	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.28 J	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	08/23/2006	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	02/20/2007	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	08/23/2007	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	08/23/2007	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.42 J	5 U	5 U	0.43 J	5 U
	02/20/2008	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	09/17/2008	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	1.2 J	1 U	5 U
	03/05/2009	ORIG	1 U	1 U	1 U	0.9 J	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5.4	0.77 J	5 U
	09/03/2009	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	0.71 J	1 U	5 U
	09/03/2009	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U

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Well ID/ Screened Interval	Sample Date	Sample Type	1,1,1- TCA (200)	1,1,2- TCA (5)	PCA	1,1-DCE (6)	cis- 1,2-DCE (6)	trans- 1,2-DCE (10)	1,1-DCA (5)	1,2-DCA (0.5)	1,2-DCB (600)	1,4-DCB (5)	CBN (70)	1,2,3-TCB (0.5)	CFM (80)	MC (5)	Freon 113 (1200)	Freon 11 (150)	Freon 12 (1000#)	
	03/03/2010	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	0.53 J	1 U	5 U	
	08/31/2010	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	
	02/02/2011	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.36 J	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	
	02/02/2011	DUP	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	
	08/23/2011	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.49 J	1 U	1 U	1 U	1 U	1 U	2 U	5 U	1 U	5 U	
	08/23/2011	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1.8 J	5 U	1 U	5 U	
	08/23/2011	DUP	1 U	1 U	1 U	3.4	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5.2	1 U	5 U	
	02/22/2012	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.46 J	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	
OW5	30 - 50																			
	08/17/2001	ORIG	2 U	2 U	2 U	22	31	2 U	2 U	1 U	2 U	2 U	2 U	2 U	2 U	10 U	220	52	10 U	
	08/17/2001	DUP	1 U	1 U	1 U	35	36	1.4	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	2.4	5 U	240	66	5 U
	11/16/2001	ORIG	1 U	1 U	1 U	24	26	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	2.1	5 U	180	46	5 U
	11/16/2001	DUP	1 U	1 U	1 U	18	30	1.6	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	2.3	5 U	170	47	5 U
	02/15/2002	ORIG	1 U	1 U	1 U	22	30	1.3	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	2	5 U	230	40	5 U
	02/15/2002	DUP	1 U	1 U	1 U	18	32	1.8	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	2.1	5 U	230	39	5 U
	08/22/2002	ORIG	1 U	1 U	1 U	37	34	1.2	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	2.1	5 U	200	61	5 U
	02/21/2003	ORIG	1 U	1 U	1 U	98	97	5.1	1 U	2.6	1 U	1 U	1 U	1 U	1 U	26	5 U	470	120	5 U
	08/28/2003	ORIG	1 U	1 U	1 U	5.4	3.6	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1.3	5 U	5 U	2.7	5 U
	02/24/2004	ORIG	3.1	0.91 J	1 U	390	33	2.9	3.8	26	1 U	1 U	1 U	1 U	1 U	160	20	450	190	5 U
	08/25/2004	ORIG	2.6	1.2	1 U	910	14	3.2	5.1	33	1 U	1 U	1 U	1 U	1 U	300	29	900	360	1.8 J
	02/24/2005	ORIG	0.38 J	1 U	1 U	130	2.4	0.4 J	0.69 J	3.7	1 U	1 U	1 U	1 U	1 U	32	5 U	240	64	5 U
	08/22/2005	ORIG	2.8 J	1.8 J	5 U	1100	27	6	9.2	53	5 U	5 U	5 U	5 U	5 U	400	25 U	930	400	25 U
	02/17/2006	ORIG	1.8	1.3	1 U	930	31	6.2	7.8	33	1 U	1 U	1 U	1 U	1 U	320	21	950	300	1.1 J
	08/24/2006	ORIG	1.2	1.7	1 U	630	48	5.9	6.2	33	1 U	1 U	1 U	1 U	1 U	180	0.98 J	750	190	5 U
	02/20/2007	ORIG	1.2	1.5	1 U	830	36	5.1	6.3	40	1 U	1 U	1 U	1 U	1 U	210	5 U	1000	290	5 U
	08/22/2007	ORIG	0.97 J	1.4	1 U	410	57	4.6	4.6	38	1 U	1 U	1 U	1 U	1 U	170	18	630	210	0.68 J
	02/21/2008	ORIG	4 U	4 U	4 U	340	20	2.4 J	3.2 J	17	4 U	4 U	4 U	4 U	4 U	120	20 U	540	180	20 U
	09/18/2008	ORIG	2.5 U	2.5 U	2.5 U	320	11	1.5 J	2.3 J	13	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	89	12 U	390	150	12 U
	09/18/2008	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	
	03/03/2009	ORIG	1 U	1 U	1 U	94	1.8	1 U	0.44 J	1.9	1 U	1 U	1 U	1 U	1 U	16	5 U	140	52	5 U
	03/03/2009	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	
	09/02/2009	ORIG	1 U	1 U	1 U	42	2	1 U	1 U	0.47 J	1 U	1 U	1 U	1 U	1 U	4.6	5 U	77	30	5 U

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Well ID/ Screened Interval	Sample Date	Sample Type	1,1,1- TCA (200)	1,1,2- TCA (5)	PCA	1,1-DCE (6)	cis- 1,2-DCE (6)	trans- 1,2-DCE (10)	1,1-DCA (5)	1,2-DCA (0.5)	1,2-DCB (600)	1,4-DCB (5)	CBN (70)	1,2,3-TCB (0.5)	CFM (80)	MC (5)	Freon 113 (1200)	Freon 11 (150)	Freon 12 (1000#)	
OW6 38 - 58																				
	05/16/2001	ORIG	4 U	4 U	4 U	39	4 U	4 U	4 U	2 U	4 U	4 U	4 U	4 U	4 U	20 U	160	96	20 U	
	08/17/2001	ORIG	4 U	4 U	4 U	39	4 U	4 U	4 U	2 U	4 U	4 U	4 U	4 U	4 U	20 U	180	93	20 U	
	11/16/2001	ORIG	2.9	1 U	1 U	190	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5.7	5 U	770	440	5 U
	02/15/2002	ORIG	1.3	1 U	1 U	120	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	3.2	5 U	530	190	5 U
	08/21/2002	ORIG	1 U	1 U	1 U	35	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1.1	5 U	140	95	5 U
	02/21/2003	ORIG	1 U	1 U	1 U	91	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	3.3	5 U	460	350	5 U
	08/28/2003	ORIG	1 U	1 U	1 U	39	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	9.3	340	120	5 U	
	02/25/2004	ORIG	1 U	1 U	1 U	16	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.83 J	5 U	62	46	5 U
	08/25/2004	ORIG	1 U	1 U	1 U	3.8	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.47 J	1.9 J	16	9.4	5 U
	02/23/2005	ORIG	1 U	1 U	1 U	6.6	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.43 J	5 U	11	4.8	5 U
	08/24/2005	ORIG	1 U	1 U	1 U	2.4	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1	5 U	22	12	5 U
	02/17/2006	ORIG	1 U	1 U	1 U	4.2	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.83 J	5 U	13	4.6	5 U
	08/24/2006	ORIG	1 U	1 U	1 U	5	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.78 J	5 U	39	13	5 U
	02/22/2007	ORIG	1 U	1 U	1 U	3.3	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.53 J	5 U	20	6.6	5 U
	08/23/2007	ORIG	1 U	1 U	1 U	2.2	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	24	5 U	15	8.4	5 U
	02/21/2008	ORIG	1 U	1 U	1 U	2.8	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.43 J	5 U	13	7.1	5 U
	02/21/2008	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1.1 JUB	5 U	1 U	5 U	
	09/17/2008	ORIG	1 U	1 U	1 U	2	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.33 J	5 U	9.1	4.6	5 U
	03/03/2009	ORIG	1 U	1 U	1 U	3.2	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.37 J	5 U	4.8 J	2.6	5 U
	09/02/2009	ORIG	1 U	1 U	1 U	4.9	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.59 J	5 U	11	6.2	5 U
	09/02/2009	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1.6 J	5 U	1 U	5 U	
OW7 70.9 - 90.9																				
	03/27/2002	ORIG	1 U	1 U	1 U	0.61 J	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	62	36	5 U	
	08/21/2002	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	51	44	5 U	
	02/21/2003	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	44	36	5 U	
	08/26/2003	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	63	54	5 U	
	02/25/2004	ORIG	1 U	1 U	1 U	0.94 J	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	52	34	5 U	
	08/25/2004	ORIG	1 U	1 U	1 U	0.4 J	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	32	29	5 U	
	02/24/2005	ORIG	1 U	1 U	1 U	0.47 J	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	31	21	5 U	
	08/22/2005	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	17	5 U	
	02/17/2006	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	13	9.9	5 U	
	08/22/2006	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	9.5	8.5	5 U	

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Well ID/ Screened Interval	Sample Date	Sample Type	1,1,1- TCA (200)	1,1,2- TCA (5)	PCA	1,1-DCE (6)	cis- 1,2-DCE (6)	trans- 1,2-DCE (10)	1,1-DCA (5)	1,2-DCA (0.5)	1,2-DCB (600)	1,4-DCB (5)	CBN (70)	1,2,3-TCB (0.5)	CFM (80)	MC (5)	Freon 113 (1200)	Freon 11 (150)	Freon 12 (1000#)
	02/20/2007	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	9	8.9	5 U
	08/23/2007	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	8.3	9.1	5 U
	02/21/2008	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	2 JUB	6.3	13	5 U
	09/16/2008	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	4.7 J	4.1	5 U
	03/03/2009	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.49 J	5 U	0.98 J	1.2	5 U
	09/01/2009	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.64 J	5 U	0.86 J	0.88 J	5 U
	03/02/2010	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.63 J	5 U	0.86 J	0.91 J	5 U
	08/31/2010	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	1.4 J	2	5 U
	02/02/2011	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	1.4 J	1 U	5 U
	08/23/2011	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	0.73 J	1.3	5 U
	02/22/2012	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.3 U	5 U	1.1 J	1.8	1 U
	02/22/2012	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U
OW8	60.4 - 80																		
	03/27/2002	ORIG	50	33	2.2	1600	6.3	92	48	110	1.7	1 U	1.2	1 U	390	36	2500	820	1.9 J
	08/22/2002	ORIG	49	20 U	20 U	1700	20 U	81	46	49	20 U	20 U	20 U	20 U	350	100 U	2100	1000	100 U
	08/22/2002	DUP	47	25	1.9	1500	9.7	66	45	86	1.2	1 U	1.1	1 U	340	140	5 U	910	5 U
	02/20/2003	ORIG	50	39	20 U	1200	20 U	58	46	240	20 U	20 U	20 U	20 U	550	930	2300	1000	100 U
	02/20/2003	DUP	48	58	25 U	1300	25 U	73	60	310	25 U	25 U	25 U	25 U	790	2400	2500	990	120 U
	03/11/2003	ORIG	390	100 U	100 U	2600	100 U	110	100	820	100 U	100 U	100 U	100 U	2000	6500	2800	810	500 U
	03/11/2003	DUP	380	100 U	100 U	2500	100 U	100 U	100 U	790	100 U	100 U	100 U	100 U	2000	6300	2600	820	500 U
	08/27/2003	ORIG	40	25 U	25 U	1500	25 U	46	39	140	25 U	25 U	25 U	25 U	420	120 U	1600	580	120 U
	08/27/2003	DUP	42	40 U	40 U	1700	40 U	43	42	150	40 U	40 U	40 U	40 U	480	200 U	1500	560	200 U
	11/20/2003	ORIG	290	41	1.7	1900	15	60	67	470	8.9	1 U	3	1 U	1300	2500	1700	540	5 U
	02/24/2004	ORIG	35 J	52	50 U	1400	50 U	68	56	350	50 U	50 U	50 U	50 U	670	1700	2200	730	250 U
	08/24/2004	ORIG	51 J	130	100 U	1300	100 U	100	110	780	100 U	100 U	100 U	100 U	1700	6300	2200	800	500 U
	02/23/2005	ORIG	400 J	94	1.4	2200	16	91	130	1100	39	3.6	7.6	1 U	2700	9100	2500	460 J	1.2 J
	02/23/2005	DUP	420	82 J	200 U	2200	200 U	84 J	150 J	1300	200 U	200 U	200 U	200 U	2800	9200	2500	480	1000 U
	08/24/2005	ORIG	450	49	1 U	2700	16	70	92	1200	24	2.6	4.8	1 U	2400	5000	2400	680	1.1 J
	08/24/2005	DUP	430	55	1 U	2500	20	81	110	1200	28	3	5.6	1 U	2400	4700	2000	590	1.6 J
	02/21/2006	ORIG	50 J	110	100 U	1100	100 U	99 J	120	720	100 U	100 U	100 U	100 U	1700	7400	2200	570	500 U
	02/21/2006	DUP	38 J	96	50 U	1000	50 U	85	99	640	50 U	50 U	50 U	50 U	1500	6000	2200	520	250 U
	03/13/2006	ORIG	200 U	200 U	200 U	860	200 U	200 U	200 U	450	200 U	200 U	200 U	200 U	1100	4600	2000 U	410	400 U
	08/24/2006	ORIG	17	43	3	450	4.5	42	41	210	3.3	1 U	2	1 U	790	2700	1700	280	5 U

Table A3-2
Omega Chemical Superfund Site
Chlorinated VOCs Analytical Summary
Groundwater Analytical Results

Well ID/ Screened Interval	Sample Date	Sample Type	1,1,1- TCA (200)	1,1,2- TCA (5)	PCA	1,1-DCE (6)	cis- 1,2-DCE (6)	trans- 1,2-DCE (10)	1,1-DCA (5)	1,2-DCA (0.5)	1,2-DCB (600)	1,4-DCB (5)	CBN (70)	1,2,3-TCB (0.5)	CFM (80)	MC (5)	Freon 113 (1200)	Freon 11 (150)	Freon 12 (1000#)
	08/24/2006	DUP	21	35	0.58 J	370	4	39	43	230	2.7	1 U	1.7	1 U	520	2000	1800	210	0.79 J
	08/21/2007	ORIG	7.1	6.2	0.46 J	260	2.3	14	13	39	1 U	1 U	0.47 J	1 U	130	110	730	180	5 U
	02/19/2008	ORIG	20 U	20 U	20 U	360	20 U	20 U	20 U	61	20 U	20 U	20 U	20 U	190	140	1200	360	100 U
	09/16/2008	ORIG	40 U	24 J	40 U	390	40 U	27 J	32 J	120	40 U	40 U	40 U	40 U	320	300	1200	230	200 U
	03/05/2009	ORIG	100 U	90 J	100 U	750	100 U	49 J	74 J	310	100 U	100 U	100 U	100 U	770	1200	1700	240	500 U
OW8B	116 - 126																		
	08/24/2004	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	02/23/2005	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	08/25/2005	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	02/21/2006	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	08/22/2006	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	08/21/2007	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	02/19/2008	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	09/16/2008	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	09/16/2008	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	03/05/2009	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	03/05/2009	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	09/01/2009	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	03/04/2010	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	09/01/2010	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	09/01/2010	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	02/03/2011	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	02/03/2011	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	08/24/2011	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	02/21/2012	ORIG	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U
OW9	70 - 90																		
	03/03/2009	ORIG	100 U	100 U	100 U	1400	100 U	100 U	43 J	230	100 U	100 U	100 U	100 U	1100	500 U	900	280	500 U
	03/03/2009	DUP	100 U	100 U	100 U	1500	100 U	100 U	40 J	240	100 U	100 U	100 U	100 U	1000	500 U	930	240	500 U
	09/01/2009	ORIG	100 U	100 U	100 U	1600	100 U	100 U	46 J	250	100 U	100 U	100 U	100 U	1100	500 U	710	260	500 U
	09/01/2009	N	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U	
	12/29/2009	ORIG	9 J	16 J	25 U	1200	54	23 J	34	210	25 U	25 U	25 U	25 U	960	120 U	1200	300	120 U
	12/29/2009	DUP	7.8 J	14 J	25 U	1200	54	22 J	37	220	25 U	25 U	25 U	25 U	1000	120 U	1100	320	120 U
	03/02/2010	ORIG	6.5 J	26	10 U	2200	30	33	57	350	4 J	10 U	10 U	10 U	2000	50 U	1500	560	50 U

Table A3-2
Omega Chemical Superfund Site
Chlorinated VOCs Analytical Summary
Groundwater Analytical Results

Well ID/ Screened Interval	Sample Date	Sample Type	1,1,1- TCA (200)	1,1,2- TCA (5)	PCA	1,1-DCE (6)	cis- 1,2-DCE (6)	trans- 1,2-DCE (10)	1,1-DCA (5)	1,2-DCA (0.5)	1,2-DCB (600)	1,4-DCB (5)	CBN (70)	1,2,3-TCB (0.5)	CFM (80)	MC (5)	Freon 113 (1200)	Freon 11 (150)	Freon 12 (1000#)
	03/02/2010	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	5 U
	06/23/2010	ORIG	50 U	50 U	50 U	1000	40 J	17 J	28 J	150	50 U	50 U	50 U	50 U	770	250 U	770	250	250 U
	06/23/2010	DUP	50 U	50 U	50 U	1100	42 J	16 J	28 J	150	50 U	50 U	50 U	50 U	820	250 U	840	260	250 U
	08/31/2010	ORIG	50 U	50 U	50 U	1500	50	15 J	30 J	190	50 U	50 U	50 U	50 U	1100	250 U	900	350	250 U
	02/02/2011	ORIG	50 U	21 J	50 U	2800	50 U	24 J	52	320	50 U	50 U	50 U	50 U	2300	250 U	1600	760	250 U
	08/24/2011	SPLIT	1.8	22	0.5 U	2800	27	31	54	310	3.9	0.5 U	1.8	0.5 U	2200	7.2	1200	600	2.2
	08/24/2011	ORIG	100 U	100 U	100 U	2900	100 U	100 U	50 J	350	100 U	100 U	100 U	100 U	2500	210 J	1400	750	500 U
	08/24/2011	DUP	100 U	100 U	100 U	3000	100 U	30 J	53 J	360	100 U	100 U	100 U	100 U	2600	220 J	1400	790	500 U
	02/21/2012	ORIG	20 U	20 U	20 U	660	20 U	20 U	20 U	95	20 U	20 U	20 U	20 U	490	100 U	520	190	20 U
	02/21/2012	DUP	20 U	20 U	20 U	680	20 U	20 U	20 U	110	20 U	20 U	20 U	20 U	500	100 U	530	200	20 U
OW10	69.5 - 89.5																		
	03/04/2009	ORIG	1 U	1 U	1 U	270	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.55 J	5 U	210	91	0.42 J
	09/02/2009	ORIG	1 U	1 U	1 U	210	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.53 J	5 U	61	35	5 U
	12/29/2009	ORIG	1 U	1 U	1 U	120	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1.4	5 U	5 U	24	5 U
	12/29/2009	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	1 U	5 U
	03/03/2010	ORIG	1 U	1 U	1 U	150	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.59 J	5 U	35	23	5 U
	06/23/2010	ORIG	1 U	1 U	1 U	86	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	32	17	5 U
	06/23/2010	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	1 U	5 U
	09/01/2010	ORIG	1 U	1 U	1 U	120	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	34	22	5 U
	02/03/2011	ORIG	1 U	1 U	1 U	74	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	16 J	10 J	5 U
	02/03/2011	DUP	1 U	1 U	1 U	68	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	24 J	13 J	5 U
	08/24/2011	ORIG	1 U	1 U	1 U	65	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	5 U	16	11	5 U
	02/21/2012	ORIG	1 U	1 U	1 U	62	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	16	12	1 U
PZ3	69.8 - 89.8																		
	02/22/2012	ORIG	5 U	5 U	5 U	220	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	25 U	77	46	5 U
PZ5	83 - 98																		
	02/21/2012	ORIG	1 U	1 U	1 U	1.9	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.3	5 U	14	7.8	1 U
	02/21/2012	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	1 U	1 U
PZ6	82 - 97																		
	02/22/2012	ORIG	1 U	1 U	1 U	3.2	1 U	0.62 J	1 U	1 U	1 U	1 U	1 U	1 U	1.3	5 U	3.1 J	2.8	1 U

Table A3-2
Omega Chemical Superfund Site
Chlorinated VOCs Analytical Summary
Groundwater Analytical Results

Well ID/ Screened Interval	Sample Date	Sample Type	1,1,1- TCA (200)	1,1,2- TCA (5)	PCA (6)	1,1-DCE (6)	cis- 1,2-DCE (10)	trans- 1,2-DCE (5)	1,1-DCA (0.5)	1,2-DCA (600)	1,2-DCB (5)	1,4-DCB (70)	CBN (0.5)	1,2,3-TCB (80)	CFM (5)	MC (1200)	Freon 113 (150)	Freon 11 (150)	Freon 12 (1000#)
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Notes:

Concentrations are reported in micrograms per liter (ug/l).

Only chlorinated compounds detected above laboratory reporting limits in one or more groundwater samples are listed.

Samples analyzed by EPA Methods 502.2, 524.2, 8240 or 8260.

-- = analyte was either not reported or not analyzed.

Screened interval is shown in feet below ground surface.

U = Not detected at a concentration greater than the reporting limit shown.

J = Estimated concentration below reporting limit.

TCA = Trichloroethane; TCB = Trichlorobenzene; PCA = 1,1,1,2-Tetrachloroethane; DCE = Dichloroethene; DCA = Dichloroethane; DCB = Dichlorobenzene; CBN = Chlorobenzene; CFM = Chloroform; MC = Methylene chloride; Freon 113 = 1,1,2-Trichloro-1,2,2-trifluoroethane; Freon 11 = Trichlorofluoromethane; Freon 12 = Dichlorodifluoromethane.

Sample Type:
 ORIG = Original sample
 DUP = Duplicate sample
 N = Equipment decontamination blank

California Maximum Contaminant Levels (MCLs) are shown in parenthesis

= California Notification Level

^ = Secondary MCL

Appendix B

Analytical Reports

Appendix B.1

Treatment Plant Analytical Results

Water

Appendix B.1.1

January 19, 2012

Water Analytical Results

LABORATORY REPORT

Prepared For: CDM Smith Inc.
111 Academy, Ste 150
Irvine, CA 92617
Attention: Sharon Wallin

Project: Omega Chemical Wastewater
IWP number 20039

Sampled: 01/19/12
Received: 01/19/12
Issued: 01/30/12 16:56

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

- SAMPLE RECEIPT: Samples were received intact, at 5°C, on ice and with chain of custody documentation.
- HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.
- PRESERVATION: Samples requiring preservation were verified prior to sample analysis.
- QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
- COMMENTS: No significant observations were made.
- SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

LABORATORY ID	CLIENT ID	MATRIX
IVA1832-01	OC_SP220B_EFF_011912	Water
IVA1832-02	OC_SP210_INF_011912	Water
IVA1832-03	OC_TB_011912	Water

Reviewed By:

TestAmerica Irvine

Patty Mata
Project Manager

CDM Smith Inc.
111 Academy, Ste 150
Irvine, CA 92617
Attention: Sharon Wallin

Project ID: Omega Chemical Wastewater
IWP number 20039
Report Number: IVA1832
Sampled: 01/19/12
Received: 01/19/12

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IVA1832-01 (OC_SP220B_EFF_011912 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	12A2633	10	ND	1	1/21/2012	1/21/2012	
Benzene	EPA 8260B	12A2633	0.50	ND	1	1/21/2012	1/21/2012	
Bromobenzene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Bromochloromethane	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Bromodichloromethane	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Bromoform	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Bromomethane	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
n-Butylbenzene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
sec-Butylbenzene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
tert-Butylbenzene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Carbon tetrachloride	EPA 8260B	12A2633	0.50	ND	1	1/21/2012	1/21/2012	
Chlorobenzene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Chloroethane	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Chloroform	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Chloromethane	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
2-Chlorotoluene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
4-Chlorotoluene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
1,2-Dibromo-3-chloropropane	EPA 8260B	12A2633	5.0	ND	1	1/21/2012	1/21/2012	
Dibromochloromethane	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
1,2-Dibromoethane (EDB)	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Dibromomethane	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
1,2-Dichlorobenzene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
1,3-Dichlorobenzene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
1,4-Dichlorobenzene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Dichlorodifluoromethane	EPA 8260B	12A2633	5.0	ND	1	1/21/2012	1/21/2012	
1,1-Dichloroethane	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
1,2-Dichloroethane	EPA 8260B	12A2633	0.50	ND	1	1/21/2012	1/21/2012	
1,1-Dichloroethene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
cis-1,2-Dichloroethene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
trans-1,2-Dichloroethene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
1,2-Dichloropropane	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
1,3-Dichloropropane	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
2,2-Dichloropropane	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
cis-1,3-Dichloropropene	EPA 8260B	12A2633	0.50	ND	1	1/21/2012	1/21/2012	
trans-1,3-Dichloropropene	EPA 8260B	12A2633	0.50	ND	1	1/21/2012	1/21/2012	
1,1-Dichloropropene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Ethylbenzene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Hexachlorobutadiene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Isopropylbenzene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
p-Isopropyltoluene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Methylene chloride	EPA 8260B	12A2633	5.0	ND	1	1/21/2012	1/21/2012	

TestAmerica Irvine

Patty Mata
Project Manager

CDM Smith Inc.
111 Academy, Ste 150
Irvine, CA 92617
Attention: Sharon Wallin

Project ID: Omega Chemical Wastewater
IWP number 20039
Report Number: IVA1832
Sampled: 01/19/12
Received: 01/19/12

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IVA1832-01 (OC_SP220B_EFF_011912 - Water) - cont.								
Reporting Units: ug/l								
Naphthalene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
n-Propylbenzene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Styrene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
1,1,1,2-Tetrachloroethane	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
1,1,2,2-Tetrachloroethane	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Tetrachloroethylene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Toluene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
1,2,3-Trichlorobenzene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
1,2,4-Trichlorobenzene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
1,1,1-Trichloroethane	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
1,1,2-Trichloroethane	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Trichloroethylene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Trichlorofluoromethane	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
1,2,3-Trichloropropane	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Trichlorotrifluoroethane (Freon 113)	EPA 8260B	12A2633	5.0	ND	1	1/21/2012	1/21/2012	
1,2,4-Trimethylbenzene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
1,3,5-Trimethylbenzene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Vinyl chloride	EPA 8260B	12A2633	0.50	ND	1	1/21/2012	1/21/2012	
m,p-Xylenes	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
o-Xylene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Surrogate: 4-Bromofluorobenzene (80-120%)				95 %				
Surrogate: Dibromofluoromethane (80-120%)				112 %				
Surrogate: Toluene-d8 (80-120%)				106 %				

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IVA1832-02 (OC_SP210_INF_011912 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	12A2633	400	ND	40	1/21/2012	1/21/2012	
Benzene	EPA 8260B	12A2633	20	ND	40	1/21/2012	1/21/2012	
Bromobenzene	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
Bromochloromethane	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
Bromodichloromethane	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
Bromoform	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
Bromomethane	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
n-Butylbenzene	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
sec-Butylbenzene	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
tert-Butylbenzene	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
Carbon tetrachloride	EPA 8260B	12A2633	20	ND	40	1/21/2012	1/21/2012	
Chlorobenzene	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
Chloroethane	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
Chloroform	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
Chloromethane	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
2-Chlorotoluene	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
4-Chlorotoluene	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
1,2-Dibromo-3-chloropropane	EPA 8260B	12A2633	200	ND	40	1/21/2012	1/21/2012	
Dibromochloromethane	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
1,2-Dibromoethane (EDB)	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
Dibromomethane	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
1,2-Dichlorobenzene	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
1,3-Dichlorobenzene	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
1,4-Dichlorobenzene	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
Dichlorodifluoromethane	EPA 8260B	12A2633	200	ND	40	1/21/2012	1/21/2012	
1,1-Dichloroethane	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
1,2-Dichloroethane	EPA 8260B	12A2633	20	ND	40	1/21/2012	1/21/2012	
1,1-Dichloroethene	EPA 8260B	12A2633	40	72	40	1/21/2012	1/21/2012	
cis-1,2-Dichloroethene	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
trans-1,2-Dichloroethene	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
1,2-Dichloropropane	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
1,3-Dichloropropane	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
2,2-Dichloropropane	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
cis-1,3-Dichloropropene	EPA 8260B	12A2633	20	ND	40	1/21/2012	1/21/2012	
trans-1,3-Dichloropropene	EPA 8260B	12A2633	20	ND	40	1/21/2012	1/21/2012	
1,1-Dichloropropene	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
Ethylbenzene	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
Hexachlorobutadiene	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
Isopropylbenzene	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
p-Isopropyltoluene	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
Methylene chloride	EPA 8260B	12A2633	200	ND	40	1/21/2012	1/21/2012	

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Sampled: 01/19/12
Received: 01/19/12

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IVA1832-02 (OC_SP210_INF_011912 - Water) - cont.								
Reporting Units: ug/l								
Naphthalene	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
n-Propylbenzene	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
Styrene	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
1,1,1,2-Tetrachloroethane	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
1,1,2,2-Tetrachloroethane	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
Tetrachloroethene	EPA 8260B	12A2633	40	1700	40	1/21/2012	1/21/2012	
Toluene	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
1,2,3-Trichlorobenzene	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
1,2,4-Trichlorobenzene	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
1,1,1-Trichloroethane	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
1,1,2-Trichloroethane	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
Trichloroethene	EPA 8260B	12A2633	40	60	40	1/21/2012	1/21/2012	
Trichlorofluoromethane	EPA 8260B	12A2633	40	49	40	1/21/2012	1/21/2012	
1,2,3-Trichloropropane	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
Trichlorotrifluoroethane (Freon 113)	EPA 8260B	12A2633	200	ND	40	1/21/2012	1/21/2012	
1,2,4-Trimethylbenzene	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
1,3,5-Trimethylbenzene	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
Vinyl chloride	EPA 8260B	12A2633	20	ND	40	1/21/2012	1/21/2012	
m,p-Xylenes	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
o-Xylene	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12A2633	40	ND	40	1/21/2012	1/21/2012	
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				97 %				
<i>Surrogate: Dibromofluoromethane (80-120%)</i>				113 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>				103 %				

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Sampled: 01/19/12
Received: 01/19/12

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IVA1832-03 (OC_TB_011912 - Water)								
Reporting Units: ug/l								
Acetone	EPA 8260B	12A2633	10	ND	1	1/21/2012	1/21/2012	
Benzene	EPA 8260B	12A2633	0.50	ND	1	1/21/2012	1/21/2012	
Bromobenzene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Bromochloromethane	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Bromodichloromethane	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Bromoform	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Bromomethane	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
n-Butylbenzene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
sec-Butylbenzene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
tert-Butylbenzene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Carbon tetrachloride	EPA 8260B	12A2633	0.50	ND	1	1/21/2012	1/21/2012	
Chlorobenzene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Chloroethane	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Chloroform	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Chloromethane	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
2-Chlorotoluene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
4-Chlorotoluene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
1,2-Dibromo-3-chloropropane	EPA 8260B	12A2633	5.0	ND	1	1/21/2012	1/21/2012	
Dibromochloromethane	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
1,2-Dibromoethane (EDB)	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Dibromomethane	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
1,2-Dichlorobenzene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
1,3-Dichlorobenzene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
1,4-Dichlorobenzene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Dichlorodifluoromethane	EPA 8260B	12A2633	5.0	ND	1	1/21/2012	1/21/2012	
1,1-Dichloroethane	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
1,2-Dichloroethane	EPA 8260B	12A2633	0.50	ND	1	1/21/2012	1/21/2012	
1,1-Dichloroethene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
cis-1,2-Dichloroethene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
trans-1,2-Dichloroethene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
1,2-Dichloropropane	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
1,3-Dichloropropane	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
2,2-Dichloropropane	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
cis-1,3-Dichloropropene	EPA 8260B	12A2633	0.50	ND	1	1/21/2012	1/21/2012	
trans-1,3-Dichloropropene	EPA 8260B	12A2633	0.50	ND	1	1/21/2012	1/21/2012	
1,1-Dichloropropene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Ethylbenzene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Hexachlorobutadiene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Isopropylbenzene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
p-Isopropyltoluene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Methylene chloride	EPA 8260B	12A2633	5.0	ND	1	1/21/2012	1/21/2012	

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Received: 01/19/12

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IVA1832-03 (OC_TB_011912 - Water) - cont.								
Reporting Units: ug/l								
Naphthalene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
n-Propylbenzene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Styrene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
1,1,1,2-Tetrachloroethane	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
1,1,2,2-Tetrachloroethane	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Tetrachloroethene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Toluene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
1,2,3-Trichlorobenzene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
1,2,4-Trichlorobenzene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
1,1,1-Trichloroethane	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
1,1,2-Trichloroethane	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Trichloroethene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Trichlorofluoromethane	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
1,2,3-Trichloropropane	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Trichlorotrifluoroethane (Freon 113)	EPA 8260B	12A2633	5.0	ND	1	1/21/2012	1/21/2012	
1,2,4-Trimethylbenzene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
1,3,5-Trimethylbenzene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Vinyl chloride	EPA 8260B	12A2633	0.50	ND	1	1/21/2012	1/21/2012	
m,p-Xylenes	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
o-Xylene	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	12A2633	1.0	ND	1	1/21/2012	1/21/2012	
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				99 %				
<i>Surrogate: Dibromofluoromethane (80-120%)</i>				113 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>				106 %				

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Sampled: 01/19/12
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SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
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Sample ID: IVA1832-01 (OC_SP220B_EFF_011912 - Water)

Reporting Units: ug/l

1,4-Dioxane	EPA 8270C	12A3089	4.8	19	9.52	1/25/2012	1/26/2012
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Surrogate: 1,4-Dioxane-d8 (30-120%)

30 % Z3

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Patty Mata
Project Manager

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CDM Smith Inc.
111 Academy, Ste 150
Irvine, CA 92617
Attention: Sharon Wallin

Project ID: Omega Chemical Wastewater
IWP number 20039
Report Number: IVA1832
Sampled: 01/19/12
Received: 01/19/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	RPD Limit	Data Qualifiers
<u>Batch: 12A2633 Extracted: 01/21/12</u>										
Blank Analyzed: 01/21/2012 (12A2633-BLK1)										
Acetone	ND	10	ug/l							
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	1.0	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
n-Butylbenzene	ND	1.0	ug/l							
sec-Butylbenzene	ND	1.0	ug/l							
tert-Butylbenzene	ND	1.0	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	1.0	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	1.0	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	1.0	ug/l							
4-Chlorotoluene	ND	1.0	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/l							
Dibromochloromethane	ND	1.0	ug/l							
1,2-Dibromoethane (EDB)	ND	1.0	ug/l							
Dibromomethane	ND	1.0	ug/l							
1,2-Dichlorobenzene	ND	1.0	ug/l							
1,3-Dichlorobenzene	ND	1.0	ug/l							
1,4-Dichlorobenzene	ND	1.0	ug/l							
Dichlorodifluoromethane	ND	5.0	ug/l							
1,1-Dichloroethane	ND	1.0	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	1.0	ug/l							
cis-1,2-Dichloroethene	ND	1.0	ug/l							
trans-1,2-Dichloroethene	ND	1.0	ug/l							
1,2-Dichloropropane	ND	1.0	ug/l							
1,3-Dichloropropane	ND	1.0	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
1,1-Dichloropropene	ND	1.0	ug/l							

TestAmerica Irvine

Patty Mata
Project Manager

CDM Smith Inc.
111 Academy, Ste 150
Irvine, CA 92617
Attention: Sharon Wallin

Project ID: Omega Chemical Wastewater
IWP number 20039
Report Number: IVA1832
Sampled: 01/19/12
Received: 01/19/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	RPD Limit	Data Qualifiers
<u>Batch: 12A2633 Extracted: 01/21/12</u>										
Blank Analyzed: 01/21/2012 (12A2633-BLK1)										
Ethylbenzene	ND	1.0	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
Isopropylbenzene	ND	1.0	ug/l							
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	5.0	ug/l							
Naphthalene	ND	1.0	ug/l							
n-Propylbenzene	ND	1.0	ug/l							
Styrene	ND	1.0	ug/l							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	ug/l							
Tetrachloroethene	ND	1.0	ug/l							
Toluene	ND	1.0	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	1.0	ug/l							
1,1,2-Trichloroethane	ND	1.0	ug/l							
Trichloroethene	ND	1.0	ug/l							
Trichlorofluoromethane	ND	1.0	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
Trichlorotrifluoroethane (Freon 113)	ND	5.0	ug/l							
1,2,4-Trimethylbenzene	ND	1.0	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
m,p-Xylenes	ND	1.0	ug/l							
o-Xylene	ND	1.0	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l							
Surrogate: 4-Bromofluorobenzene	24.7		ug/l	25.0		99	80-120			
Surrogate: Dibromofluoromethane	28.0		ug/l	25.0		112	80-120			
Surrogate: Toluene-d8	26.6		ug/l	25.0		106	80-120			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
<u>Batch: 12A2633 Extracted: 01/21/12</u>										
LCS Analyzed: 01/21/2012 (12A2633-BS1)										
Acetone	34.8	10	ug/l	25.0		139	30-140			
Benzene	19.8	0.50	ug/l	25.0		79	70-120			
Bromobenzene	23.5	1.0	ug/l	25.0		94	75-120			
Bromochloromethane	22.3	1.0	ug/l	25.0		89	70-130			
Bromodichloromethane	26.9	1.0	ug/l	25.0		108	70-135			
Bromoform	25.4	1.0	ug/l	25.0		102	55-130			
Bromomethane	24.8	1.0	ug/l	25.0		99	65-140			
n-Butylbenzene	24.3	1.0	ug/l	25.0		97	70-130			
sec-Butylbenzene	25.2	1.0	ug/l	25.0		101	70-125			
tert-Butylbenzene	22.4	1.0	ug/l	25.0		90	70-125			
Carbon tetrachloride	30.9	0.50	ug/l	25.0		124	65-140			
Chlorobenzene	22.1	1.0	ug/l	25.0		88	75-120			
Chloroethane	17.9	1.0	ug/l	25.0		72	60-140			
Chloroform	25.2	1.0	ug/l	25.0		101	70-130			
Chloromethane	19.5	1.0	ug/l	25.0		78	50-140			
2-Chlorotoluene	23.6	1.0	ug/l	25.0		95	70-125			
4-Chlorotoluene	24.9	1.0	ug/l	25.0		99	75-125			
1,2-Dibromo-3-chloropropane	22.2	5.0	ug/l	25.0		89	50-135			
Dibromochloromethane	26.1	1.0	ug/l	25.0		105	70-140			
1,2-Dibromoethane (EDB)	24.4	1.0	ug/l	25.0		98	75-125			
Dibromomethane	23.5	1.0	ug/l	25.0		94	70-125			
1,2-Dichlorobenzene	23.3	1.0	ug/l	25.0		93	75-120			
1,3-Dichlorobenzene	23.6	1.0	ug/l	25.0		94	75-120			
1,4-Dichlorobenzene	22.7	1.0	ug/l	25.0		91	75-120			
Dichlorodifluoromethane	21.0	5.0	ug/l	25.0		84	35-155			
1,1-Dichloroethane	22.8	1.0	ug/l	25.0		91	70-125			
1,2-Dichloroethane	29.6	0.50	ug/l	25.0		119	60-140			
1,1-Dichloroethene	19.2	1.0	ug/l	25.0		77	70-125			
cis-1,2-Dichloroethene	21.4	1.0	ug/l	25.0		86	70-125			
trans-1,2-Dichloroethene	19.9	1.0	ug/l	25.0		80	70-125			
1,2-Dichloropropane	19.9	1.0	ug/l	25.0		80	70-125			
1,3-Dichloropropane	22.2	1.0	ug/l	25.0		89	70-120			
2,2-Dichloropropane	30.8	1.0	ug/l	25.0		123	65-140			
cis-1,3-Dichloropropene	21.4	0.50	ug/l	25.0		85	75-125			
trans-1,3-Dichloropropene	23.7	0.50	ug/l	25.0		95	70-125			
1,1-Dichloropropene	24.0	1.0	ug/l	25.0		96	75-130			

TestAmerica Irvine

Patty Mata
Project Manager

CDM Smith Inc.
111 Academy, Ste 150
Irvine, CA 92617
Attention: Sharon Wallin

Project ID: Omega Chemical Wastewater
IWP number 20039
Report Number: IVA1832
Sampled: 01/19/12
Received: 01/19/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
<u>Batch: 12A2633 Extracted: 01/21/12</u>										
LCS Analyzed: 01/21/2012 (12A2633-BS1)										
Ethylbenzene	24.8	1.0	ug/l	25.0	99	75-125				
Hexachlorobutadiene	25.5	1.0	ug/l	25.0	102	65-135				
Isopropylbenzene	21.8	1.0	ug/l	25.0	87	75-130				
p-Isopropyltoluene	24.6	1.0	ug/l	25.0	99	75-125				
Methylene chloride	17.7	5.0	ug/l	25.0	71	55-130				
Naphthalene	20.4	1.0	ug/l	25.0	82	55-135				
n-Propylbenzene	23.5	1.0	ug/l	25.0	94	75-130				
Styrene	21.7	1.0	ug/l	25.0	87	75-130				
1,1,1,2-Tetrachloroethane	25.4	1.0	ug/l	25.0	102	70-130				
1,1,2,2-Tetrachloroethane	19.8	1.0	ug/l	25.0	79	55-130				
Tetrachloroethene	24.2	1.0	ug/l	25.0	97	70-125				
Toluene	22.6	1.0	ug/l	25.0	91	70-120				
1,2,3-Trichlorobenzene	22.4	1.0	ug/l	25.0	90	65-125				
1,2,4-Trichlorobenzene	21.8	1.0	ug/l	25.0	87	70-135				
1,1,1-Trichloroethane	28.5	1.0	ug/l	25.0	114	65-135				
1,1,2-Trichloroethane	20.6	1.0	ug/l	25.0	83	70-125				
Trichloroethene	24.2	1.0	ug/l	25.0	97	70-125				
Trichlorofluoromethane	28.1	1.0	ug/l	25.0	112	65-145				
1,2,3-Trichloropropane	20.9	1.0	ug/l	25.0	84	60-130				
1,2,4-Trimethylbenzene	23.8	1.0	ug/l	25.0	95	75-125				
1,3,5-Trimethylbenzene	23.5	1.0	ug/l	25.0	94	75-125				
Vinyl chloride	22.7	0.50	ug/l	25.0	91	55-135				
m,p-Xylenes	50.6	1.0	ug/l	50.0	101	75-125				
o-Xylene	25.3	1.0	ug/l	25.0	101	75-125				
Methyl-tert-butyl Ether (MTBE)	24.1	1.0	ug/l	25.0	96	60-135				
Surrogate: 4-Bromofluorobenzene	29.2		ug/l	25.0	117	80-120				
Surrogate: Dibromofluoromethane	25.5		ug/l	25.0	102	80-120				
Surrogate: Toluene-d8	25.4		ug/l	25.0	101	80-120				

TestAmerica Irvine

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
<u>Batch: 12A2633 Extracted: 01/21/12</u>										
Matrix Spike Analyzed: 01/21/2012 (12A2633-MS1)										
Source: IVA1796-02										
Acetone	29.0	10	ug/l	25.0	ND	116	20-150			
Benzene	20.4	0.50	ug/l	25.0	ND	82	65-125			
Bromobenzene	22.8	1.0	ug/l	25.0	ND	91	70-125			
Bromochloromethane	22.3	1.0	ug/l	25.0	ND	89	65-135			
Bromodichloromethane	27.3	1.0	ug/l	25.0	ND	109	70-135			
Bromoform	24.4	1.0	ug/l	25.0	ND	98	55-135			
Bromomethane	23.7	1.0	ug/l	25.0	ND	95	55-145			
n-Butylbenzene	23.4	1.0	ug/l	25.0	ND	93	65-135			
sec-Butylbenzene	23.9	1.0	ug/l	25.0	ND	96	70-125			
tert-Butylbenzene	21.1	1.0	ug/l	25.0	ND	85	65-130			
Carbon tetrachloride	30.7	0.50	ug/l	25.0	ND	123	65-140			
Chlorobenzene	22.0	1.0	ug/l	25.0	ND	88	75-125			
Chloroethane	16.8	1.0	ug/l	25.0	ND	67	55-140			
Chloroform	25.8	1.0	ug/l	25.0	ND	103	65-135			
Chloromethane	18.6	1.0	ug/l	25.0	ND	74	45-145			
2-Chlorotoluene	22.5	1.0	ug/l	25.0	ND	90	65-135			
4-Chlorotoluene	23.7	1.0	ug/l	25.0	ND	95	70-135			
1,2-Dibromo-3-chloropropane	20.3	5.0	ug/l	25.0	ND	81	45-145			
Dibromochloromethane	25.5	1.0	ug/l	25.0	ND	102	65-140			
1,2-Dibromoethane (EDB)	23.8	1.0	ug/l	25.0	ND	95	70-130			
Dibromomethane	25.4	1.0	ug/l	25.0	ND	102	65-135			
1,2-Dichlorobenzene	22.5	1.0	ug/l	25.0	ND	90	75-125			
1,3-Dichlorobenzene	22.5	1.0	ug/l	25.0	ND	90	75-125			
1,4-Dichlorobenzene	21.9	1.0	ug/l	25.0	ND	88	75-125			
Dichlorodifluoromethane	20.6	5.0	ug/l	25.0	ND	82	25-155			
1,1-Dichloroethane	22.0	1.0	ug/l	25.0	ND	88	65-130			
1,2-Dichloroethane	30.0	0.50	ug/l	25.0	ND	120	60-140			
1,1-Dichloroethene	19.2	1.0	ug/l	25.0	ND	77	60-130			
cis-1,2-Dichloroethene	21.3	1.0	ug/l	25.0	ND	85	65-130			
trans-1,2-Dichloroethene	19.9	1.0	ug/l	25.0	ND	80	65-130			
1,2-Dichloropropane	20.2	1.0	ug/l	25.0	ND	81	65-130			
1,3-Dichloropropane	22.2	1.0	ug/l	25.0	ND	89	65-135			
2,2-Dichloropropane	28.9	1.0	ug/l	25.0	ND	115	60-145			
cis-1,3-Dichloropropene	22.6	0.50	ug/l	25.0	ND	90	70-130			
trans-1,3-Dichloropropene	24.3	0.50	ug/l	25.0	ND	97	65-135			
1,1-Dichloropropene	23.8	1.0	ug/l	25.0	ND	95	70-135			

TestAmerica Irvine

Patty Mata
Project Manager

CDM Smith Inc.
111 Academy, Ste 150
Irvine, CA 92617
Attention: Sharon Wallin

Project ID: Omega Chemical Wastewater
IWP number 20039
Report Number: IVA1832
Sampled: 01/19/12
Received: 01/19/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 12A2633 Extracted: 01/21/12										
Matrix Spike Analyzed: 01/21/2012 (12A2633-MS1)										
Source: IVA1796-02										
Ethylbenzene	24.2	1.0	ug/l	25.0	ND	97	65-130			
Hexachlorobutadiene	23.7	1.0	ug/l	25.0	ND	95	60-135			
Isopropylbenzene	20.5	1.0	ug/l	25.0	ND	82	70-135			
p-Isopropyltoluene	23.4	1.0	ug/l	25.0	ND	94	65-130			
Methylene chloride	17.8	5.0	ug/l	25.0	ND	71	50-135			
Naphthalene	18.8	1.0	ug/l	25.0	ND	75	50-140			
n-Propylbenzene	22.2	1.0	ug/l	25.0	ND	89	70-135			
Styrene	21.3	1.0	ug/l	25.0	ND	85	50-145			
1,1,1,2-Tetrachloroethane	26.3	1.0	ug/l	25.0	ND	105	65-140			
1,1,2,2-Tetrachloroethane	18.8	1.0	ug/l	25.0	ND	75	55-135			
Tetrachloroethene	23.3	1.0	ug/l	25.0	ND	93	65-130			
Toluene	22.8	1.0	ug/l	25.0	ND	91	70-125			
1,2,3-Trichlorobenzene	21.3	1.0	ug/l	25.0	ND	85	60-135			
1,2,4-Trichlorobenzene	20.9	1.0	ug/l	25.0	ND	84	65-135			
1,1,1-Trichloroethane	27.7	1.0	ug/l	25.0	ND	111	65-140			
1,1,2-Trichloroethane	22.6	1.0	ug/l	25.0	ND	91	65-130			
Trichloroethene	23.9	1.0	ug/l	25.0	ND	96	65-125			
Trichlorofluoromethane	27.4	1.0	ug/l	25.0	ND	110	60-145			
1,2,3-Trichloropropane	20.2	1.0	ug/l	25.0	ND	81	55-135			
1,2,4-Trimethylbenzene	22.7	1.0	ug/l	25.0	ND	91	55-135			
1,3,5-Trimethylbenzene	22.1	1.0	ug/l	25.0	ND	88	70-130			
Vinyl chloride	20.6	0.50	ug/l	25.0	ND	82	45-140			
m,p-Xylenes	49.3	1.0	ug/l	50.0	ND	99	65-130			
o-Xylene	24.9	1.0	ug/l	25.0	ND	99	65-125			
Methyl-tert-butyl Ether (MTBE)	24.2	1.0	ug/l	25.0	ND	97	55-145			
Surrogate: 4-Bromofluorobenzene	29.6		ug/l	25.0		118	80-120			
Surrogate: Dibromofluoromethane	26.1		ug/l	25.0		104	80-120			
Surrogate: Toluene-d8	26.5		ug/l	25.0		106	80-120			

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Sampled: 01/19/12
Received: 01/19/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 12A2633 Extracted: 01/21/12										
Matrix Spike Dup Analyzed: 01/21/2012 (12A2633-MSD1)										
Source: IVA1796-02										
Acetone	30.8	10	ug/l	25.0	ND	123	20-150	6	35	
Benzene	19.9	0.50	ug/l	25.0	ND	79	65-125	3	20	
Bromobenzene	23.0	1.0	ug/l	25.0	ND	92	70-125	1	20	
Bromoform	21.8	1.0	ug/l	25.0	ND	87	65-135	2	25	
Bromochloromethane	26.4	1.0	ug/l	25.0	ND	106	70-135	3	20	
Bromodichloromethane	24.6	1.0	ug/l	25.0	ND	99	55-135	0.8	25	
Bromomethane	23.5	1.0	ug/l	25.0	ND	94	55-145	0.9	25	
n-Butylbenzene	23.8	1.0	ug/l	25.0	ND	95	65-135	2	20	
sec-Butylbenzene	23.9	1.0	ug/l	25.0	ND	96	70-125	0.1	20	
tert-Butylbenzene	21.1	1.0	ug/l	25.0	ND	84	65-130	0.09	20	
Carbon tetrachloride	29.5	0.50	ug/l	25.0	ND	118	65-140	4	25	
Chlorobenzene	21.3	1.0	ug/l	25.0	ND	85	75-125	3	20	
Chloroethane	16.9	1.0	ug/l	25.0	ND	68	55-140	0.7	25	
Chloroform	23.8	1.0	ug/l	25.0	ND	95	65-135	8	20	
Chloromethane	17.9	1.0	ug/l	25.0	ND	72	45-145	4	25	
2-Chlorotoluene	22.7	1.0	ug/l	25.0	ND	91	65-135	1	20	
4-Chlorotoluene	23.6	1.0	ug/l	25.0	ND	94	70-135	0.6	20	
1,2-Dibromo-3-chloropropane	21.4	5.0	ug/l	25.0	ND	86	45-145	5	30	
Dibromochloromethane	25.9	1.0	ug/l	25.0	ND	104	65-140	2	25	
1,2-Dibromoethane (EDB)	22.9	1.0	ug/l	25.0	ND	92	70-130	4	25	
Dibromomethane	24.4	1.0	ug/l	25.0	ND	97	65-135	4	25	
1,2-Dichlorobenzene	22.5	1.0	ug/l	25.0	ND	90	75-125	0.3	20	
1,3-Dichlorobenzene	22.7	1.0	ug/l	25.0	ND	91	75-125	0.6	20	
1,4-Dichlorobenzene	21.6	1.0	ug/l	25.0	ND	86	75-125	1	20	
Dichlorodifluoromethane	19.3	5.0	ug/l	25.0	ND	77	25-155	6	30	
1,1-Dichloroethane	21.9	1.0	ug/l	25.0	ND	87	65-130	0.9	20	
1,2-Dichloroethane	28.3	0.50	ug/l	25.0	ND	113	60-140	6	20	
1,1-Dichloroethene	19.2	1.0	ug/l	25.0	ND	77	60-130	0.2	20	
cis-1,2-Dichloroethene	20.6	1.0	ug/l	25.0	ND	82	65-130	4	20	
trans-1,2-Dichloroethene	19.6	1.0	ug/l	25.0	ND	78	65-130	2	20	
1,2-Dichloropropane	19.8	1.0	ug/l	25.0	ND	79	65-130	2	20	
1,3-Dichloropropane	22.5	1.0	ug/l	25.0	ND	90	65-135	1	25	
2,2-Dichloropropane	28.1	1.0	ug/l	25.0	ND	112	60-145	3	25	
cis-1,3-Dichloropropene	21.2	0.50	ug/l	25.0	ND	85	70-130	6	20	
trans-1,3-Dichloropropene	24.6	0.50	ug/l	25.0	ND	98	65-135	1	25	
1,1-Dichloropropene	22.6	1.0	ug/l	25.0	ND	90	70-135	5	20	

TestAmerica Irvine

Patty Mata
Project Manager

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CDM Smith Inc.
111 Academy, Ste 150
Irvine, CA 92617
Attention: Sharon Wallin

Project ID: Omega Chemical Wastewater
IWP number 20039
Report Number: IVA1832
Sampled: 01/19/12
Received: 01/19/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12A2633 Extracted: 01/21/12										
Matrix Spike Dup Analyzed: 01/21/2012 (12A2633-MSD1)										
Source: IVA1796-02										
Ethylbenzene	23.4	1.0	ug/l	25.0	ND	94	65-130	3	20	
Hexachlorobutadiene	23.6	1.0	ug/l	25.0	ND	95	60-135	0.4	20	
Isopropylbenzene	20.5	1.0	ug/l	25.0	ND	82	70-135	0.1	20	
p-Isopropyltoluene	23.5	1.0	ug/l	25.0	ND	94	65-130	0.5	20	
Methylene chloride	17.4	5.0	ug/l	25.0	ND	70	50-135	2	20	
Naphthalene	19.7	1.0	ug/l	25.0	ND	79	50-140	5	30	
n-Propylbenzene	22.5	1.0	ug/l	25.0	ND	90	70-135	1	20	
Styrene	20.7	1.0	ug/l	25.0	ND	83	50-145	2	30	
1,1,1,2-Tetrachloroethane	25.8	1.0	ug/l	25.0	ND	103	65-140	2	20	
1,1,2,2-Tetrachloroethane	18.9	1.0	ug/l	25.0	ND	76	55-135	0.7	30	
Tetrachloroethene	23.3	1.0	ug/l	25.0	ND	93	65-130	0.2	20	
Toluene	22.2	1.0	ug/l	25.0	ND	89	70-125	3	20	
1,2,3-Trichlorobenzene	22.1	1.0	ug/l	25.0	ND	88	60-135	4	20	
1,2,4-Trichlorobenzene	21.9	1.0	ug/l	25.0	ND	88	65-135	5	20	
1,1,1-Trichloroethane	26.2	1.0	ug/l	25.0	ND	105	65-140	6	20	
1,1,2-Trichloroethane	21.7	1.0	ug/l	25.0	ND	87	65-130	4	25	
Trichloroethene	23.0	1.0	ug/l	25.0	ND	92	65-125	4	20	
Trichlorofluoromethane	26.3	1.0	ug/l	25.0	ND	105	60-145	4	25	
1,2,3-Trichloropropane	19.6	1.0	ug/l	25.0	ND	79	55-135	3	30	
1,2,4-Trimethylbenzene	22.4	1.0	ug/l	25.0	ND	90	55-135	1	25	
1,3,5-Trimethylbenzene	22.2	1.0	ug/l	25.0	ND	89	70-130	0.6	20	
Vinyl chloride	19.5	0.50	ug/l	25.0	ND	78	45-140	5	30	
m,p-Xylenes	47.1	1.0	ug/l	50.0	ND	94	65-130	5	25	
o-Xylene	24.0	1.0	ug/l	25.0	ND	96	65-125	4	20	
Methyl-tert-butyl Ether (MTBE)	24.3	1.0	ug/l	25.0	ND	97	55-145	0.4	25	
Surrogate: 4-Bromofluorobenzene	28.7		ug/l	25.0		115	80-120			
Surrogate: Dibromofluoromethane	25.8		ug/l	25.0		103	80-120			
Surrogate: Toluene-d8	26.0		ug/l	25.0		104	80-120			

TestAmerica Irvine

Patty Mata
Project Manager

CDM Smith Inc.
111 Academy, Ste 150
Irvine, CA 92617
Attention: Sharon Wallin

Project ID: Omega Chemical Wastewater
IWP number 20039
Report Number: IVA1832
Sampled: 01/19/12
Received: 01/19/12

METHOD BLANK/QC DATA

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 3520C/8270C MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
<u>Batch: 12A3089 Extracted: 01/25/12</u>										
Blank Analyzed: 01/26/2012 (12A3089-BLK1)										
1,4-Dioxane	ND	0.50	ug/l							
Surrogate: 1,4-Dioxane-d8	1.39		ug/l	2.00		70	30-120			
LCS Analyzed: 01/26/2012 (12A3089-BS1)										
1,4-Dioxane	1.31	0.50	ug/l	2.00		66	35-120			MNR1
Surrogate: 1,4-Dioxane-d8	1.30		ug/l	2.00		65	30-120			
LCS Dup Analyzed: 01/26/2012 (12A3089-BSD1)										
1,4-Dioxane	1.20	0.50	ug/l	2.00		60	35-120	9	25	
Surrogate: 1,4-Dioxane-d8	1.16		ug/l	2.00		58	30-120			

TestAmerica Irvine

Patty Mata
Project Manager

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IVA1832 <Page 17 of 19>

CDM Smith Inc.
111 Academy, Ste 150
Irvine, CA 92617
Attention: Sharon Wallin

Project ID: Omega Chemical Wastewater
IWP number 20039
Report Number: IVA1832
Sampled: 01/19/12
Received: 01/19/12

DATA QUALIFIERS AND DEFINITIONS

- MNR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- Z3** The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

ADDITIONAL COMMENTS

For 8260 analyses:

Due to the high water solubility of alcohols and ketones, the calibration criteria for these compounds is <30% RSD. The average % RSD of all compounds in the calibration is 15%, in accordance with EPA methods.

TestAmerica Irvine

Patty Mata
Project Manager

CDM Smith Inc.
111 Academy, Ste 150
Irvine, CA 92617
Attention: Sharon Wallin

Project ID: Omega Chemical Wastewater
IWP number 20039
Report Number: IVA1832
Sampled: 01/19/12
Received: 01/19/12

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 8260B	Water	X	X
EPA 8270C	Water	X	N/A

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Irvine

Patty Mata
Project Manager

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Nashville, TN
 Orlando, FL
 Cedar Falls, IA

Dayton, OH
 Watertown, WI
 Pontiac, MI

Indianapolis, IN
 Irvine, CA

Client Name/Account #: CDM

Address: CDM / Omega Chemical

City/State/Zip: Irvine, CA 92617

Project Manager: Sharon Wallin

Telephone Number: 949.752.5452 **Fax No.:**

Sampler Name: (Print) Carlton Hammie

Sampler Signature:

[Signature] Preservative Matrix

Reserve
Date _____
Name _____
Address _____
City _____ State _____ Zip _____

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?

Compliance Monitoring? Yes No

Enforcement Action? Yes No

Report To: Sharon Wallin / Elizabeth DeCola

Invoice To: de maximis

TA Quote #: _____

Project ID: _____

Project #: _____

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Preservative		Matrix		Analyze For:		RUSH TAT (Pre-Schedule)														
				Grab	Composite	Field Filtered	Ice	HNO ₃ (Red Label)	HCl (Blue Label)		NaOH (Orange Label)	H ₂ SO ₄ Plastic (Yellow Label)	H ₂ SO ₄ Glass (Yellow Label)	None (Black Label)	Other (Specify):	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	VOC (8260B) (including freons)	1,4 Dioxane (8270M)	
OC_SP220B_EFF_011912	1/19/2012	1150	5	x			x										x	x						x
OC_SP210_INF_011912	1/19/2012	1155	3	x			x										x							x
OC_TB_011912	1/19/2012	1145	2	x			x										x	x						x
OC_EW1_SP110_011912	1/19/2012	5	x				x										x	x						x
OC_EW2_SP120_011912	1/19/2012	5	x				x										x	x						x
OC_EW3_SP130_011912	1/19/2012	5	x				x										x	x						x
QC_EW4_SP140_011912	1/19/2012	5	x				x										x	x						x
OC_EW5_SP150_011912	1/19/2012	5	x				x										x	x						x
Special Instructions:												Laboratory Comments:												
												Method of Shipment:												
Relinquished by: <i>lcl</i>	Date 1/19/12	Time 1345	Received by: <i>lcl</i>	Date 1-19-12	Time 1345	Temperature Upon Receipt: VOCs Free of Headspace? Y N																		
Relinquished by: <i>lcl</i>	Date 1-19-12	Time 1827	Received by TestAmerica: <i>Z</i>	Date 1/19/12	Time 1827																			

0.0
01/21/20
10:20

Appendix B.1.2

**February 21, 2012
Water Analytical Results**

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Irvine

17461 Derian Ave

Suite 100

Irvine, CA 92614-5817

Tel: (949)261-1022

TestAmerica Job ID: 440-3337-1

Client Project/Site: Omega Chemical Wastewater

For:

CDM Smith, Inc.

111 Academy, Ste 150

Irvine, California 92617

Attn: Sharon Wallin



Authorized for release by:

3/8/2012 9:47:23 AM

Patty Mata

Project Manager I

patty.mata@testamericainc.com

LINKS

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results through

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Ask
The
Expert

Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Wastewater

TestAmerica Job ID: 440-3337-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-3337-1	OC_SP220B_EFF_022112	Water	02/21/12 11:55	02/21/12 18:05
440-3337-2	OC_SP210_INF_022112	Water	02/21/12 11:45	02/21/12 18:05
440-3337-3	OC_TB-022112	Water	02/21/12 11:30	02/21/12 18:05
440-3337-4	OC_EW1_SP110_022112	Water	02/21/12 15:25	02/21/12 18:05
440-3337-5	OC_EW2_SP120_022112	Water	02/21/12 15:10	02/21/12 18:05
440-3337-6	OC_EW3_SP130_022112	Water	02/21/12 15:00	02/21/12 18:05
440-3337-7	OC_EW4_SP140_022112	Water	02/21/12 14:45	02/21/12 18:05
440-3337-8	OC_EW5_SP150_022112	Water	02/21/12 14:30	02/21/12 18:05

Case Narrative

Client: CDM Smith, Inc.
Project/Site: Omega Chemical Wastewater

TestAmerica Job ID: 440-3337-1

Job ID: 440-3337-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative 440-3337-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

Method(s) 624, 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 10144 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. Tetrachloroethene was outside recoveries due to a high hit in the source. Recoveries for 1,1-dichloroethene, 2-methyl-2-propanol, ethanol, 2-chloroethyl vinyl ether, and 1,3-dichloropropane are outside limits, but pass in the LCS.

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 10374 exceeded control limits for the following analytes: 2,2-Dichloropropane and Carbon tetrachloride. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The continuing calibration verification (CCV) for 2,Dichloropropane associated with batch 10374 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No other analytical or quality issues were noted.

GC/MS Semi VOA

Method(s) 8270C SIM: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported:
OC_EW2_SP120_022112 (440-3337-5), OC_SP220B_EFF_022112 (440-3337-1).

Method(s) 8270C SIM: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported:
OC_EW4_SP140_022112 (440-3337-7).

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

VOA Prep

No analytical or quality issues were noted.

Client Sample Results

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Wastewater

TestAmerica Job ID: 440-3337-1

Client Sample ID: OC_SP220B_EFF_022112

Lab Sample ID: 440-3337-1

Matrix: Water

Date Collected: 02/21/12 11:55

Date Received: 02/21/12 18:05

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L		02/28/12 10:33		1
1,1,1-Trichloroethane	ND		1.0	ug/L		02/28/12 10:33		1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L		02/28/12 10:33		1
1,1,2-Trichloroethane	ND		1.0	ug/L		02/28/12 10:33		1
1,1-Dichloroethane	ND		1.0	ug/L		02/28/12 10:33		1
1,1-Dichloroethene	ND		1.0	ug/L		02/28/12 10:33		1
1,1-Dichloropropene	ND		1.0	ug/L		02/28/12 10:33		1
1,2,3-Trichlorobenzene	ND		1.0	ug/L		02/28/12 10:33		1
1,2,3-Trichloropropane	ND		1.0	ug/L		02/28/12 10:33		1
1,2,4-Trichlorobenzene	ND		1.0	ug/L		02/28/12 10:33		1
1,2,4-Trimethylbenzene	ND		1.0	ug/L		02/28/12 10:33		1
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L		02/28/12 10:33		1
1,2-Dichlorobenzene	ND		1.0	ug/L		02/28/12 10:33		1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L		02/28/12 10:33		1
1,2-Dichloroethane	ND		1.0	ug/L		02/28/12 10:33		1
1,2-Dichloropropane	ND		1.0	ug/L		02/28/12 10:33		1
1,3,5-Trimethylbenzene	ND		1.0	ug/L		02/28/12 10:33		1
1,3-Dichlorobenzene	ND		1.0	ug/L		02/28/12 10:33		1
1,3-Dichloropropane	ND		1.0	ug/L		02/28/12 10:33		1
1,4-Dichlorobenzene	ND		1.0	ug/L		02/28/12 10:33		1
2,2-Dichloropropane	ND		1.0	ug/L		02/28/12 10:33		1
2-Chlorotoluene	ND		1.0	ug/L		02/28/12 10:33		1
4-Chlorotoluene	ND		1.0	ug/L		02/28/12 10:33		1
p-Isopropyltoluene	ND		1.0	ug/L		02/28/12 10:33		1
Benzene	ND		0.50	ug/L		02/28/12 10:33		1
Bromobenzene	ND		1.0	ug/L		02/28/12 10:33		1
Bromoform	ND		1.0	ug/L		02/28/12 10:33		1
Bromomethane	ND		1.0	ug/L		02/28/12 10:33		1
Bromodichloromethane	ND		1.0	ug/L		02/28/12 10:33		1
Cis-1,2-Dichloroethene	ND		1.0	ug/L		02/28/12 10:33		1
cis-1,3-Dichloropropene	ND		0.50	ug/L		02/28/12 10:33		1
Dibromochloromethane	ND		1.0	ug/L		02/28/12 10:33		1
Dibromomethane	ND		1.0	ug/L		02/28/12 10:33		1
Dichlorodifluoromethane	ND		1.0	ug/L		02/28/12 10:33		1
Ethylbenzene	ND		1.0	ug/L		02/28/12 10:33		1
Hexachlorobutadiene	ND		1.0	ug/L		02/28/12 10:33		1
Isopropylbenzene	ND		1.0	ug/L		02/28/12 10:33		1
m,p-Xylene	ND		1.0	ug/L		02/28/12 10:33		1
Methylene Chloride	ND		5.0	ug/L		02/28/12 10:33		1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L		02/28/12 10:33		1
Naphthalene	ND		1.0	ug/L		02/28/12 10:33		1
n-Butylbenzene	ND		1.0	ug/L		02/28/12 10:33		1
N-Propylbenzene	ND		1.0	ug/L		02/28/12 10:33		1
o-Xylene	ND		1.0	ug/L		02/28/12 10:33		1
sec-Butylbenzene	ND		1.0	ug/L		02/28/12 10:33		1

Client Sample Results

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Wastewater

TestAmerica Job ID: 440-3337-1

Client Sample ID: OC_SP220B_EFF_022112

Lab Sample ID: 440-3337-1

Date Collected: 02/21/12 11:55

Matrix: Water

Date Received: 02/21/12 18:05

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0	ug/L		02/28/12 10:33		1
tert-Butylbenzene	ND		1.0	ug/L		02/28/12 10:33		1
Tetrachloroethene	ND		1.0	ug/L		02/28/12 10:33		1
Toluene	ND		1.0	ug/L		02/28/12 10:33		1
trans-1,2-Dichloroethene	ND		1.0	ug/L		02/28/12 10:33		1
trans-1,3-Dichloropropene	ND		0.50	ug/L		02/28/12 10:33		1
Trichloroethene	ND		1.0	ug/L		02/28/12 10:33		1
Trichlorofluoromethane	ND		1.0	ug/L		02/28/12 10:33		1
Vinyl chloride	ND		0.50	ug/L		02/28/12 10:33		1
Acetone	ND		10	ug/L		02/28/12 10:33		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	ug/L		02/28/12 10:33		1
Surrogate		%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		96		80 - 120			02/28/12 10:33	1
Dibromofluoromethane (Surr)		86		80 - 120			02/28/12 10:33	1
Toluene-d8 (Surr)		103		80 - 120			02/28/12 10:33	1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	50		4.7	ug/L		02/26/12 16:57	03/03/12 03:40	10
Surrogate		%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)		62		30 - 120		02/26/12 16:57	03/03/12 03:40	10

Client Sample ID: OC_SP210_INF_022112

Lab Sample ID: 440-3337-2

Date Collected: 02/21/12 11:45

Matrix: Water

Date Received: 02/21/12 18:05

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L		02/29/12 13:48		1
1,1,1-Trichloroethane	3.9		1.0	ug/L		02/29/12 13:48		1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L		02/29/12 13:48		1
1,1,2-Trichloroethane	1.2		1.0	ug/L		02/29/12 13:48		1
1,1-Dichloroethane	3.1		1.0	ug/L		02/29/12 13:48		1
1,1-Dichloroethene	150		1.0	ug/L		02/29/12 13:48		1
1,1-Dichloropropene	ND		1.0	ug/L		02/29/12 13:48		1
1,2,3-Trichlorobenzene	ND		1.0	ug/L		02/29/12 13:48		1
1,2,3-Trichloropropane	ND		1.0	ug/L		02/29/12 13:48		1
1,2,4-Trichlorobenzene	ND		1.0	ug/L		02/29/12 13:48		1
1,2,4-Trimethylbenzene	ND		1.0	ug/L		02/29/12 13:48		1
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L		02/29/12 13:48		1
1,2-Dichlorobenzene	ND		1.0	ug/L		02/29/12 13:48		1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L		02/29/12 13:48		1
1,2-Dichloroethane	10		1.0	ug/L		02/29/12 13:48		1
1,2-Dichloropropane	ND		1.0	ug/L		02/29/12 13:48		1
1,3,5-Trimethylbenzene	ND		1.0	ug/L		02/29/12 13:48		1
1,3-Dichlorobenzene	ND		1.0	ug/L		02/29/12 13:48		1
1,3-Dichloropropane	ND		1.0	ug/L		02/29/12 13:48		1
1,4-Dichlorobenzene	ND		1.0	ug/L		02/29/12 13:48		1
2,2-Dichloropropane	ND		1.0	ug/L		02/29/12 13:48		1
2-Chlorotoluene	ND		1.0	ug/L		02/29/12 13:48		1

Client Sample Results

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Wastewater

TestAmerica Job ID: 440-3337-1

Client Sample ID: OC_SP210_INF_022112

Lab Sample ID: 440-3337-2

Matrix: Water

Date Collected: 02/21/12 11:45

Date Received: 02/21/12 18:05

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		1.0	ug/L		02/29/12 13:48		1
p-Isopropyltoluene	ND		1.0	ug/L		02/29/12 13:48		1
Benzene	ND		0.50	ug/L		02/29/12 13:48		1
Bromobenzene	ND		1.0	ug/L		02/29/12 13:48		1
Bromoform	ND		1.0	ug/L		02/29/12 13:48		1
Bromochloromethane	ND		1.0	ug/L		02/29/12 13:48		1
Bromodichloromethane	ND		1.0	ug/L		02/29/12 13:48		1
Bromoform	ND		1.0	ug/L		02/29/12 13:48		1
Bromomethane	ND		1.0	ug/L		02/29/12 13:48		1
Carbon tetrachloride	ND		0.50	ug/L		02/29/12 13:48		1
Chlorobenzene	ND		1.0	ug/L		02/29/12 13:48		1
Chloroethane	ND		1.0	ug/L		02/29/12 13:48		1
Chloroform	67		1.0	ug/L		02/29/12 13:48		1
Chloromethane	ND		1.0	ug/L		02/29/12 13:48		1
cis-1,2-Dichloroethene	ND		1.0	ug/L		02/29/12 13:48		1
cis-1,3-Dichloropropene	ND		0.50	ug/L		02/29/12 13:48		1
Dibromochloromethane	ND		1.0	ug/L		02/29/12 13:48		1
Dibromomethane	ND		1.0	ug/L		02/29/12 13:48		1
Dichlorodifluoromethane	ND		1.0	ug/L		02/29/12 13:48		1
Ethylbenzene	ND		1.0	ug/L		02/29/12 13:48		1
Hexachlorobutadiene	ND		1.0	ug/L		02/29/12 13:48		1
Isopropylbenzene	ND		1.0	ug/L		02/29/12 13:48		1
m,p-Xylene	ND		1.0	ug/L		02/29/12 13:48		1
Methylene Chloride	ND		5.0	ug/L		02/29/12 13:48		1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L		02/29/12 13:48		1
Naphthalene	ND		1.0	ug/L		02/29/12 13:48		1
n-Butylbenzene	ND		1.0	ug/L		02/29/12 13:48		1
N-Propylbenzene	ND		1.0	ug/L		02/29/12 13:48		1
o-Xylene	ND		1.0	ug/L		02/29/12 13:48		1
sec-Butylbenzene	ND		1.0	ug/L		02/29/12 13:48		1
Styrene	ND		1.0	ug/L		02/29/12 13:48		1
tert-Butylbenzene	ND		1.0	ug/L		02/29/12 13:48		1
Tetrachloroethene	2600		40	ug/L		02/28/12 12:04		40
Toluene	ND		1.0	ug/L		02/29/12 13:48		1
trans-1,2-Dichloroethene	1.9		1.0	ug/L		02/29/12 13:48		1
trans-1,3-Dichloropropene	ND		0.50	ug/L		02/29/12 13:48		1
Trichloroethene	110		1.0	ug/L		02/29/12 13:48		1
Trichlorofluoromethane	64		1.0	ug/L		02/29/12 13:48		1
Vinyl chloride	ND		0.50	ug/L		02/29/12 13:48		1
Acetone	ND		10	ug/L		02/29/12 13:48		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	ug/L		02/29/12 13:48		1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	96		80 - 120			02/28/12 12:04		40
4-Bromofluorobenzene (Surr)	104		80 - 120			02/29/12 13:48		1
Dibromofluoromethane (Surr)	90		80 - 120			02/28/12 12:04		40
Dibromofluoromethane (Surr)	94		80 - 120			02/29/12 13:48		1
Toluene-d8 (Surr)	100		80 - 120			02/28/12 12:04		40
Toluene-d8 (Surr)	98		80 - 120			02/29/12 13:48		1

Client Sample Results

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Wastewater

TestAmerica Job ID: 440-3337-1

Client Sample ID: OC_TB-022112

Lab Sample ID: 440-3337-3

Date Collected: 02/21/12 11:30

Matrix: Water

Date Received: 02/21/12 18:05

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L		02/28/12 12:34		1
1,1,1-Trichloroethane	ND		1.0	ug/L		02/28/12 12:34		1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L		02/28/12 12:34		1
1,1,2-Trichloroethane	ND		1.0	ug/L		02/28/12 12:34		1
1,1-Dichloroethane	ND		1.0	ug/L		02/28/12 12:34		1
1,1-Dichloroethene	ND		1.0	ug/L		02/28/12 12:34		1
1,1-Dichloropropene	ND		1.0	ug/L		02/28/12 12:34		1
1,2,3-Trichlorobenzene	ND		1.0	ug/L		02/28/12 12:34		1
1,2,3-Trichloropropane	ND		1.0	ug/L		02/28/12 12:34		1
1,2,4-Trichlorobenzene	ND		1.0	ug/L		02/28/12 12:34		1
1,2,4-Trimethylbenzene	ND		1.0	ug/L		02/28/12 12:34		1
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L		02/28/12 12:34		1
1,2-Dichlorobenzene	ND		1.0	ug/L		02/28/12 12:34		1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L		02/28/12 12:34		1
1,2-Dichloroethane	ND		1.0	ug/L		02/28/12 12:34		1
1,2-Dichloropropene	ND		1.0	ug/L		02/28/12 12:34		1
1,3,5-Trimethylbenzene	ND		1.0	ug/L		02/28/12 12:34		1
1,3-Dichlorobenzene	ND		1.0	ug/L		02/28/12 12:34		1
1,3-Dichloropropane	ND		1.0	ug/L		02/28/12 12:34		1
1,4-Dichlorobenzene	ND		1.0	ug/L		02/28/12 12:34		1
2,2-Dichloropropane	ND		1.0	ug/L		02/28/12 12:34		1
2-Chlorotoluene	ND		1.0	ug/L		02/28/12 12:34		1
4-Chlorotoluene	ND		1.0	ug/L		02/28/12 12:34		1
p-Isopropyltoluene	ND		1.0	ug/L		02/28/12 12:34		1
Benzene	ND		0.50	ug/L		02/28/12 12:34		1
Bromobenzene	ND		1.0	ug/L		02/28/12 12:34		1
Bromochloromethane	ND		1.0	ug/L		02/28/12 12:34		1
Bromodichloromethane	ND		1.0	ug/L		02/28/12 12:34		1
Bromoform	ND		1.0	ug/L		02/28/12 12:34		1
Bromomethane	ND		1.0	ug/L		02/28/12 12:34		1
Carbon tetrachloride	ND		0.50	ug/L		02/28/12 12:34		1
Chlorobenzene	ND		1.0	ug/L		02/28/12 12:34		1
Chloroethane	ND		1.0	ug/L		02/28/12 12:34		1
Chloroform	ND		1.0	ug/L		02/28/12 12:34		1
Chloromethane	ND		1.0	ug/L		02/28/12 12:34		1
cis-1,2-Dichloroethene	ND		1.0	ug/L		02/28/12 12:34		1
cis-1,3-Dichloropropene	ND		0.50	ug/L		02/28/12 12:34		1
Dibromochloromethane	ND		1.0	ug/L		02/28/12 12:34		1
Dibromomethane	ND		1.0	ug/L		02/28/12 12:34		1
Dichlorodifluoromethane	ND		1.0	ug/L		02/28/12 12:34		1
Ethylbenzene	ND		1.0	ug/L		02/28/12 12:34		1
Hexachlorobutadiene	ND		1.0	ug/L		02/28/12 12:34		1
Isopropylbenzene	ND		1.0	ug/L		02/28/12 12:34		1
m,p-Xylene	ND		1.0	ug/L		02/28/12 12:34		1
Methylene Chloride	ND		5.0	ug/L		02/28/12 12:34		1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L		02/28/12 12:34		1
Naphthalene	ND		1.0	ug/L		02/28/12 12:34		1
n-Butylbenzene	ND		1.0	ug/L		02/28/12 12:34		1
N-Propylbenzene	ND		1.0	ug/L		02/28/12 12:34		1
o-Xylene	ND		1.0	ug/L		02/28/12 12:34		1
sec-Butylbenzene	ND		1.0	ug/L		02/28/12 12:34		1

Client Sample Results

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Wastewater

TestAmerica Job ID: 440-3337-1

Client Sample ID: OC_TB-022112

Lab Sample ID: 440-3337-3

Date Collected: 02/21/12 11:30

Matrix: Water

Date Received: 02/21/12 18:05

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0	ug/L		02/28/12 12:34		1
tert-Butylbenzene	ND		1.0	ug/L		02/28/12 12:34		1
Tetrachloroethene	ND		1.0	ug/L		02/28/12 12:34		1
Toluene	ND		1.0	ug/L		02/28/12 12:34		1
trans-1,2-Dichloroethene	ND		1.0	ug/L		02/28/12 12:34		1
trans-1,3-Dichloropropene	ND		0.50	ug/L		02/28/12 12:34		1
Trichloroethene	ND		1.0	ug/L		02/28/12 12:34		1
Trichlorofluoromethane	ND		1.0	ug/L		02/28/12 12:34		1
Vinyl chloride	ND		0.50	ug/L		02/28/12 12:34		1
Acetone	ND		10	ug/L		02/28/12 12:34		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	ug/L		02/28/12 12:34		1
Surrogate		%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		96		80 - 120			02/28/12 12:34	1
Dibromofluoromethane (Surr)		91		80 - 120			02/28/12 12:34	1
Toluene-d8 (Surr)		100		80 - 120			02/28/12 12:34	1

Client Sample ID: OC_EW1_SP110_022112

Lab Sample ID: 440-3337-4

Date Collected: 02/21/12 15:25

Matrix: Water

Date Received: 02/21/12 18:05

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L		02/29/12 11:51		1
1,1,1-Trichloroethane	ND		1.0	ug/L		02/29/12 11:51		1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L		02/29/12 11:51		1
1,1,2-Trichloroethane	ND		1.0	ug/L		02/29/12 11:51		1
1,1-Dichloroethane	1.2		1.0	ug/L		02/29/12 11:51		1
1,1-Dichloroethene	160		1.0	ug/L		02/29/12 11:51		1
1,1-Dichloropropene	ND		1.0	ug/L		02/29/12 11:51		1
1,2,3-Trichlorobenzene	ND		1.0	ug/L		02/29/12 11:51		1
1,2,3-Trichloropropane	ND		1.0	ug/L		02/29/12 11:51		1
1,2,4-Trichlorobenzene	ND		1.0	ug/L		02/29/12 11:51		1
1,2,4-Trimethylbenzene	ND		1.0	ug/L		02/29/12 11:51		1
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L		02/29/12 11:51		1
1,2-Dichlorobenzene	ND		1.0	ug/L		02/29/12 11:51		1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L		02/29/12 11:51		1
1,2-Dichloroethane	ND		1.0	ug/L		02/29/12 11:51		1
1,2-Dichloropropene	ND		1.0	ug/L		02/29/12 11:51		1
1,3,5-Trimethylbenzene	ND		1.0	ug/L		02/29/12 11:51		1
1,3-Dichlorobenzene	ND		1.0	ug/L		02/29/12 11:51		1
1,3-Dichloropropane	ND		1.0	ug/L		02/29/12 11:51		1
1,4-Dichlorobenzene	ND		1.0	ug/L		02/29/12 11:51		1
2,2-Dichloropropane	ND		1.0	ug/L		02/29/12 11:51		1
2-Chlorotoluene	ND		1.0	ug/L		02/29/12 11:51		1
4-Chlorotoluene	ND		1.0	ug/L		02/29/12 11:51		1
p-Isopropyltoluene	ND		1.0	ug/L		02/29/12 11:51		1
Benzene	ND		0.50	ug/L		02/29/12 11:51		1
Bromobenzene	ND		1.0	ug/L		02/29/12 11:51		1
Bromochloromethane	ND		1.0	ug/L		02/29/12 11:51		1
Bromodichloromethane	ND		1.0	ug/L		02/29/12 11:51		1

Client Sample Results

Client: CDM Smith, Inc.

TestAmerica Job ID: 440-3337-1

Project/Site: Omega Chemical Wastewater

Client Sample ID: OC_EW1_SP110_022112

Lab Sample ID: 440-3337-4

Matrix: Water

Date Collected: 02/21/12 15:25

Date Received: 02/21/12 18:05

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		1.0	ug/L		02/29/12 11:51		1
Bromomethane	ND		1.0	ug/L		02/29/12 11:51		1
Carbon tetrachloride	ND		0.50	ug/L		02/29/12 11:51		1
Chlorobenzene	ND		1.0	ug/L		02/29/12 11:51		1
Chloroethane	ND		1.0	ug/L		02/29/12 11:51		1
Chloroform	3.2		1.0	ug/L		02/29/12 11:51		1
Chloromethane	ND		1.0	ug/L		02/29/12 11:51		1
cis-1,2-Dichloroethene	ND		1.0	ug/L		02/29/12 11:51		1
cis-1,3-Dichloropropene	ND		0.50	ug/L		02/29/12 11:51		1
Dibromochloromethane	ND		1.0	ug/L		02/29/12 11:51		1
Dibromomethane	ND		1.0	ug/L		02/29/12 11:51		1
Dichlorodifluoromethane	ND		1.0	ug/L		02/29/12 11:51		1
Ethylbenzene	ND		1.0	ug/L		02/29/12 11:51		1
Hexachlorobutadiene	ND		1.0	ug/L		02/29/12 11:51		1
Isopropylbenzene	ND		1.0	ug/L		02/29/12 11:51		1
m,p-Xylene	ND		1.0	ug/L		02/29/12 11:51		1
Methylene Chloride	ND		5.0	ug/L		02/29/12 11:51		1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L		02/29/12 11:51		1
Naphthalene	ND		1.0	ug/L		02/29/12 11:51		1
n-Butylbenzene	ND		1.0	ug/L		02/29/12 11:51		1
N-Propylbenzene	ND		1.0	ug/L		02/29/12 11:51		1
o-Xylene	ND		1.0	ug/L		02/29/12 11:51		1
sec-Butylbenzene	ND		1.0	ug/L		02/29/12 11:51		1
Styrene	ND		1.0	ug/L		02/29/12 11:51		1
tert-Butylbenzene	ND		1.0	ug/L		02/29/12 11:51		1
Toluene	ND		1.0	ug/L		02/29/12 11:51		1
trans-1,2-Dichloroethene	ND		1.0	ug/L		02/29/12 11:51		1
trans-1,3-Dichloropropene	ND		0.50	ug/L		02/29/12 11:51		1
Trichloroethene	76		1.0	ug/L		02/29/12 11:51		1
Trichlorofluoromethane	50		1.0	ug/L		02/29/12 11:51		1
Vinyl chloride	ND		0.50	ug/L		02/29/12 11:51		1
Acetone	ND		10	ug/L		02/29/12 11:51		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	ug/L		02/29/12 11:51		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120				02/29/12 11:51	1
Dibromofluoromethane (Surr)	91		80 - 120				02/29/12 11:51	1
Toluene-d8 (Surr)	96		80 - 120				02/29/12 11:51	1

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	650		5.0	ug/L			02/28/12 13:05	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		80 - 120				02/28/12 13:05	5
Dibromofluoromethane (Surr)	89		80 - 120				02/28/12 13:05	5
Toluene-d8 (Surr)	101		80 - 120				02/28/12 13:05	5

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.47	ug/L		02/26/12 16:57	03/03/12 04:02	1

Client Sample Results

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Wastewater

TestAmerica Job ID: 440-3337-1

Client Sample ID: OC_EW1_SP110_022112

Lab Sample ID: 440-3337-4

Matrix: Water

Date Collected: 02/21/12 15:25

Date Received: 02/21/12 18:05

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	64		30 - 120	02/26/12 16:57	03/03/12 04:02	1

Client Sample ID: OC_EW2_SP120_022112

Lab Sample ID: 440-3337-5

Matrix: Water

Date Collected: 02/21/12 15:10

Date Received: 02/21/12 18:05

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.2		1.0	ug/L		02/29/12 14:17		1
1,1,1-Trichloroethane	4.5		1.0	ug/L		02/29/12 14:17		1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L		02/29/12 14:17		1
1,1,2-Trichloroethane	1.3		1.0	ug/L		02/29/12 14:17		1
1,1-Dichloroethane	3.6		1.0	ug/L		02/29/12 14:17		1
1,1-Dichloroethene	180		1.0	ug/L		02/29/12 14:17		1
1,1-Dichloropropene	ND		1.0	ug/L		02/29/12 14:17		1
1,2,3-Trichlorobenzene	ND		1.0	ug/L		02/29/12 14:17		1
1,2,3-Trichloropropane	ND		1.0	ug/L		02/29/12 14:17		1
1,2,4-Trichlorobenzene	ND		1.0	ug/L		02/29/12 14:17		1
1,2,4-Trimethylbenzene	ND		1.0	ug/L		02/29/12 14:17		1
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L		02/29/12 14:17		1
1,2-Dichlorobenzene	ND		1.0	ug/L		02/29/12 14:17		1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L		02/29/12 14:17		1
1,2-Dichloroethane	12		1.0	ug/L		02/29/12 14:17		1
1,2-Dichloropropene	ND		1.0	ug/L		02/29/12 14:17		1
1,3,5-Trimethylbenzene	ND		1.0	ug/L		02/29/12 14:17		1
1,3-Dichlorobenzene	ND		1.0	ug/L		02/29/12 14:17		1
1,3-Dichloropropane	ND		1.0	ug/L		02/29/12 14:17		1
1,4-Dichlorobenzene	ND		1.0	ug/L		02/29/12 14:17		1
2,2-Dichloropropane	ND		1.0	ug/L		02/29/12 14:17		1
2-Chlorotoluene	ND		1.0	ug/L		02/29/12 14:17		1
4-Chlorotoluene	ND		1.0	ug/L		02/29/12 14:17		1
p-Isopropyltoluene	ND		1.0	ug/L		02/29/12 14:17		1
Benzene	ND		0.50	ug/L		02/29/12 14:17		1
Bromobenzene	ND		1.0	ug/L		02/29/12 14:17		1
Bromochloromethane	ND		1.0	ug/L		02/29/12 14:17		1
Bromodichloromethane	ND		1.0	ug/L		02/29/12 14:17		1
Bromoform	ND		1.0	ug/L		02/29/12 14:17		1
Bromomethane	ND		1.0	ug/L		02/29/12 14:17		1
Carbon tetrachloride	ND		0.50	ug/L		02/29/12 14:17		1
Chlorobenzene	ND		1.0	ug/L		02/29/12 14:17		1
Chloroethane	ND		1.0	ug/L		02/29/12 14:17		1
Chloroform	79		1.0	ug/L		02/29/12 14:17		1
Chloromethane	ND		1.0	ug/L		02/29/12 14:17		1
cis-1,2-Dichloroethene	ND		1.0	ug/L		02/29/12 14:17		1
cis-1,3-Dichloropropene	ND		0.50	ug/L		02/29/12 14:17		1
Dibromochloromethane	1.0		1.0	ug/L		02/29/12 14:17		1
Dibromomethane	ND		1.0	ug/L		02/29/12 14:17		1
Dichlorodifluoromethane	ND		1.0	ug/L		02/29/12 14:17		1
Ethylbenzene	ND		1.0	ug/L		02/29/12 14:17		1
Hexachlorobutadiene	ND		1.0	ug/L		02/29/12 14:17		1
Isopropylbenzene	ND		1.0	ug/L		02/29/12 14:17		1
m,p-Xylene	ND		1.0	ug/L		02/29/12 14:17		1

Client Sample Results

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Wastewater

TestAmerica Job ID: 440-3337-1

Client Sample ID: OC_EW2_SP120_022112

Lab Sample ID: 440-3337-5

Matrix: Water

Date Collected: 02/21/12 15:10

Date Received: 02/21/12 18:05

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.0	ug/L		02/29/12 14:17		1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L		02/29/12 14:17		1
Naphthalene	ND		1.0	ug/L		02/29/12 14:17		1
n-Butylbenzene	ND		1.0	ug/L		02/29/12 14:17		1
N-Propylbenzene	ND		1.0	ug/L		02/29/12 14:17		1
o-Xylene	ND		1.0	ug/L		02/29/12 14:17		1
sec-Butylbenzene	ND		1.0	ug/L		02/29/12 14:17		1
Styrene	ND		1.0	ug/L		02/29/12 14:17		1
tert-Butylbenzene	ND		1.0	ug/L		02/29/12 14:17		1
Tetrachloroethene	3100		40	ug/L		02/28/12 13:35		40
Toluene	ND		1.0	ug/L		02/29/12 14:17		1
trans-1,2-Dichloroethene	2.4		1.0	ug/L		02/29/12 14:17		1
trans-1,3-Dichloropropene	ND		0.50	ug/L		02/29/12 14:17		1
Trichloroethene	120		1.0	ug/L		02/29/12 14:17		1
Trichlorofluoromethane	70		1.0	ug/L		02/29/12 14:17		1
Vinyl chloride	ND		0.50	ug/L		02/29/12 14:17		1
Acetone	ND		10	ug/L		02/29/12 14:17		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	ug/L		02/29/12 14:17		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120			02/28/12 13:35		40
4-Bromofluorobenzene (Surr)	103		80 - 120			02/29/12 14:17		1
Dibromofluoromethane (Surr)	89		80 - 120			02/28/12 13:35		40
Dibromofluoromethane (Surr)	98		80 - 120			02/29/12 14:17		1
Toluene-d8 (Surr)	100		80 - 120			02/28/12 13:35		40
Toluene-d8 (Surr)	99		80 - 120			02/29/12 14:17		1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	67		20	ug/L		02/26/12 16:57	03/03/12 04:25	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	66		30 - 120			02/26/12 16:57	03/03/12 04:25	20

Client Sample ID: OC_EW3_SP130_022112

Lab Sample ID: 440-3337-6

Matrix: Water

Date Collected: 02/21/12 15:00

Date Received: 02/21/12 18:05

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		20	ug/L		02/28/12 14:05		20
1,1,1-Trichloroethane	ND		20	ug/L		02/28/12 14:05		20
1,1,2,2-Tetrachloroethane	ND		20	ug/L		02/28/12 14:05		20
1,1,2-Trichloroethane	ND		20	ug/L		02/28/12 14:05		20
1,1-Dichloroethane	ND		20	ug/L		02/28/12 14:05		20
1,1-Dichloroethene	200		20	ug/L		02/28/12 14:05		20
1,1-Dichloropropene	ND		20	ug/L		02/28/12 14:05		20
1,2,3-Trichlorobenzene	ND		20	ug/L		02/28/12 14:05		20
1,2,3-Trichloropropane	ND		20	ug/L		02/28/12 14:05		20
1,2,4-Trichlorobenzene	ND		20	ug/L		02/28/12 14:05		20
1,2,4-Trimethylbenzene	ND		20	ug/L		02/28/12 14:05		20
1,2-Dibromo-3-Chloropropane	ND		100	ug/L		02/28/12 14:05		20

Client Sample Results

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Wastewater

TestAmerica Job ID: 440-3337-1

Client Sample ID: OC_EW3_SP130_022112

Lab Sample ID: 440-3337-6

Date Collected: 02/21/12 15:00

Matrix: Water

Date Received: 02/21/12 18:05

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		20	ug/L		02/28/12 14:05		20
1,2-Dibromoethane (EDB)	ND		20	ug/L		02/28/12 14:05		20
1,2-Dichloroethane	ND		20	ug/L		02/28/12 14:05		20
1,2-Dichloropropane	ND		20	ug/L		02/28/12 14:05		20
1,3,5-Trimethylbenzene	ND		20	ug/L		02/28/12 14:05		20
1,3-Dichlorobenzene	ND		20	ug/L		02/28/12 14:05		20
1,3-Dichloropropane	ND		20	ug/L		02/28/12 14:05		20
1,4-Dichlorobenzene	ND		20	ug/L		02/28/12 14:05		20
2,2-Dichloropropane	ND		20	ug/L		02/28/12 14:05		20
2-Chlorotoluene	ND		20	ug/L		02/28/12 14:05		20
4-Chlorotoluene	ND		20	ug/L		02/28/12 14:05		20
p-Isopropyltoluene	ND		20	ug/L		02/28/12 14:05		20
Benzene	ND		10	ug/L		02/28/12 14:05		20
Bromobenzene	ND		20	ug/L		02/28/12 14:05		20
Bromochloromethane	ND		20	ug/L		02/28/12 14:05		20
Bromodichloromethane	ND		20	ug/L		02/28/12 14:05		20
Bromoform	ND		20	ug/L		02/28/12 14:05		20
Bromomethane	ND		20	ug/L		02/28/12 14:05		20
Carbon tetrachloride	ND		10	ug/L		02/28/12 14:05		20
Chlorobenzene	ND		20	ug/L		02/28/12 14:05		20
Chloroethane	ND		20	ug/L		02/28/12 14:05		20
Chloroform	ND		20	ug/L		02/28/12 14:05		20
Chloromethane	ND		20	ug/L		02/28/12 14:05		20
cis-1,2-Dichloroethene	ND		20	ug/L		02/28/12 14:05		20
cis-1,3-Dichloropropene	ND		10	ug/L		02/28/12 14:05		20
Dibromochloromethane	ND		20	ug/L		02/28/12 14:05		20
Dibromomethane	ND		20	ug/L		02/28/12 14:05		20
Dichlorodifluoromethane	ND		20	ug/L		02/28/12 14:05		20
Ethylbenzene	ND		20	ug/L		02/28/12 14:05		20
Hexachlorobutadiene	ND		20	ug/L		02/28/12 14:05		20
Isopropylbenzene	ND		20	ug/L		02/28/12 14:05		20
m,p-Xylene	ND		20	ug/L		02/28/12 14:05		20
Methylene Chloride	ND		100	ug/L		02/28/12 14:05		20
Methyl-t-Butyl Ether (MTBE)	ND		20	ug/L		02/28/12 14:05		20
Naphthalene	ND		20	ug/L		02/28/12 14:05		20
n-Butylbenzene	ND		20	ug/L		02/28/12 14:05		20
N-Propylbenzene	ND		20	ug/L		02/28/12 14:05		20
o-Xylene	ND		20	ug/L		02/28/12 14:05		20
sec-Butylbenzene	ND		20	ug/L		02/28/12 14:05		20
Styrene	ND		20	ug/L		02/28/12 14:05		20
tert-Butylbenzene	ND		20	ug/L		02/28/12 14:05		20
Tetrachloroethene	540		20	ug/L		02/28/12 14:05		20
Toluene	ND		20	ug/L		02/28/12 14:05		20
trans-1,2-Dichloroethene	ND		20	ug/L		02/28/12 14:05		20
trans-1,3-Dichloropropene	ND		10	ug/L		02/28/12 14:05		20
Trichloroethene	53		20	ug/L		02/28/12 14:05		20
Trichlorofluoromethane	97		20	ug/L		02/28/12 14:05		20
Vinyl chloride	ND		10	ug/L		02/28/12 14:05		20
Acetone	ND		200	ug/L		02/28/12 14:05		20
1,1,2-Trichloro-1,2,2-trifluoroethane	170		100	ug/L		02/28/12 14:05		20

Client Sample Results

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Wastewater

TestAmerica Job ID: 440-3337-1

Client Sample ID: OC_EW3_SP130_022112

Lab Sample ID: 440-3337-6

Matrix: Water

Date Collected: 02/21/12 15:00

Date Received: 02/21/12 18:05

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120		02/28/12 14:05	20
Dibromofluoromethane (Surr)	92		80 - 120		02/28/12 14:05	20
Toluene-d8 (Surr)	100		80 - 120		02/28/12 14:05	20

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	4.0		0.48	ug/L		02/26/12 16:57	03/03/12 04:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	70		30 - 120			02/26/12 16:57	03/03/12 04:47	1

Client Sample ID: OC_EW4_SP140_022112

Lab Sample ID: 440-3337-7

Matrix: Water

Date Collected: 02/21/12 14:45

Date Received: 02/21/12 18:05

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	ug/L		02/28/12 14:35		2
1,1,1-Trichloroethane	ND		2.0	ug/L		02/28/12 14:35		2
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L		02/28/12 14:35		2
1,1,2-Trichloroethane	ND		2.0	ug/L		02/28/12 14:35		2
1,1-Dichloroethane	ND		2.0	ug/L		02/28/12 14:35		2
1,1-Dichloroethene	85		2.0	ug/L		02/28/12 14:35		2
1,1-Dichloropropene	ND		2.0	ug/L		02/28/12 14:35		2
1,2,3-Trichlorobenzene	ND		2.0	ug/L		02/28/12 14:35		2
1,2,3-Trichloropropane	ND		2.0	ug/L		02/28/12 14:35		2
1,2,4-Trichlorobenzene	ND		2.0	ug/L		02/28/12 14:35		2
1,2,4-Trimethylbenzene	ND		2.0	ug/L		02/28/12 14:35		2
1,2-Dibromo-3-Chloropropane	ND		10	ug/L		02/28/12 14:35		2
1,2-Dichlorobenzene	ND		2.0	ug/L		02/28/12 14:35		2
1,2-Dibromoethane (EDB)	ND		2.0	ug/L		02/28/12 14:35		2
1,2-Dichloroethane	ND		2.0	ug/L		02/28/12 14:35		2
1,2-Dichloropropene	ND		2.0	ug/L		02/28/12 14:35		2
1,3,5-Trimethylbenzene	ND		2.0	ug/L		02/28/12 14:35		2
1,3-Dichlorobenzene	ND		2.0	ug/L		02/28/12 14:35		2
1,3-Dichloropropane	ND		2.0	ug/L		02/28/12 14:35		2
1,4-Dichlorobenzene	ND		2.0	ug/L		02/28/12 14:35		2
2,2-Dichloropropane	ND		2.0	ug/L		02/28/12 14:35		2
2-Chlorotoluene	ND		2.0	ug/L		02/28/12 14:35		2
4-Chlorotoluene	ND		2.0	ug/L		02/28/12 14:35		2
p-Isopropyltoluene	ND		2.0	ug/L		02/28/12 14:35		2
Benzene	ND		1.0	ug/L		02/28/12 14:35		2
Bromobenzene	ND		2.0	ug/L		02/28/12 14:35		2
Bromochloromethane	ND		2.0	ug/L		02/28/12 14:35		2
Bromodichloromethane	ND		2.0	ug/L		02/28/12 14:35		2
Bromoform	ND		2.0	ug/L		02/28/12 14:35		2
Bromomethane	ND		2.0	ug/L		02/28/12 14:35		2
Carbon tetrachloride	ND		1.0	ug/L		02/28/12 14:35		2
Chlorobenzene	ND		2.0	ug/L		02/28/12 14:35		2
Chloroethane	ND		2.0	ug/L		02/28/12 14:35		2
Chloroform	ND		2.0	ug/L		02/28/12 14:35		2
Chloromethane	ND		2.0	ug/L		02/28/12 14:35		2

Client Sample Results

Client: CDM Smith, Inc.

TestAmerica Job ID: 440-3337-1

Project/Site: Omega Chemical Wastewater

Client Sample ID: OC_EW4_SP140_022112

Lab Sample ID: 440-3337-7

Matrix: Water

Date Collected: 02/21/12 14:45

Date Received: 02/21/12 18:05

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		2.0	ug/L		02/28/12 14:35		2
cis-1,3-Dichloropropene	ND		1.0	ug/L		02/28/12 14:35		2
Dibromochloromethane	ND		2.0	ug/L		02/28/12 14:35		2
Dibromomethane	ND		2.0	ug/L		02/28/12 14:35		2
Dichlorodifluoromethane	ND		2.0	ug/L		02/28/12 14:35		2
Ethylbenzene	ND		2.0	ug/L		02/28/12 14:35		2
Hexachlorobutadiene	ND		2.0	ug/L		02/28/12 14:35		2
Isopropylbenzene	ND		2.0	ug/L		02/28/12 14:35		2
m,p-Xylene	ND		2.0	ug/L		02/28/12 14:35		2
Methylene Chloride	ND		10	ug/L		02/28/12 14:35		2
Methyl-t-Butyl Ether (MTBE)	ND		2.0	ug/L		02/28/12 14:35		2
Naphthalene	ND		2.0	ug/L		02/28/12 14:35		2
n-Butylbenzene	ND		2.0	ug/L		02/28/12 14:35		2
N-Propylbenzene	ND		2.0	ug/L		02/28/12 14:35		2
o-Xylene	ND		2.0	ug/L		02/28/12 14:35		2
sec-Butylbenzene	ND		2.0	ug/L		02/28/12 14:35		2
Styrene	ND		2.0	ug/L		02/28/12 14:35		2
tert-Butylbenzene	ND		2.0	ug/L		02/28/12 14:35		2
Tetrachloroethene	130		2.0	ug/L		02/28/12 14:35		2
Toluene	ND		2.0	ug/L		02/28/12 14:35		2
trans-1,2-Dichloroethene	ND		2.0	ug/L		02/28/12 14:35		2
trans-1,3-Dichloropropene	ND		1.0	ug/L		02/28/12 14:35		2
Trichloroethene	13		2.0	ug/L		02/28/12 14:35		2
Trichlorofluoromethane	20		2.0	ug/L		02/28/12 14:35		2
Vinyl chloride	ND		1.0	ug/L		02/28/12 14:35		2
Acetone	ND		20	ug/L		02/28/12 14:35		2
1,1,2-Trichloro-1,2,2-trifluoroethane	35		10	ug/L		02/28/12 14:35		2
ne								

Surrogate

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120		02/28/12 14:35	2
Dibromofluoromethane (Surr)	92		80 - 120		02/28/12 14:35	2
Toluene-d8 (Surr)	102		80 - 120		02/28/12 14:35	2

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	24		4.7	ug/L		02/26/12 16:57	03/06/12 15:44	10
Surrogate	%Recovery	Qualifier	Limits					
1,4-Dioxane-d8 (Surr)	69		30 - 120			02/26/12 16:57	03/06/12 15:44	10

Client Sample ID: OC_EW5_SP150_022112

Lab Sample ID: 440-3337-8

Matrix: Water

Date Collected: 02/21/12 14:30

Date Received: 02/21/12 18:05

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L		02/28/12 15:06		1
1,1,1-Trichloroethane	ND		1.0	ug/L		02/28/12 15:06		1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L		02/28/12 15:06		1
1,1,2-Trichloroethane	ND		1.0	ug/L		02/28/12 15:06		1
1,1-Dichloroethane	ND		1.0	ug/L		02/28/12 15:06		1

Client Sample Results

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Wastewater

TestAmerica Job ID: 440-3337-1

Client Sample ID: OC_EW5_SP150_022112

Lab Sample ID: 440-3337-8

Date Collected: 02/21/12 14:30

Matrix: Water

Date Received: 02/21/12 18:05

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	83		1.0	ug/L		02/28/12 15:06		1
1,1-Dichloropropene	ND		1.0	ug/L		02/28/12 15:06		1
1,2,3-Trichlorobenzene	ND		1.0	ug/L		02/28/12 15:06		1
1,2,3-Trichloropropane	ND		1.0	ug/L		02/28/12 15:06		1
1,2,4-Trichlorobenzene	ND		1.0	ug/L		02/28/12 15:06		1
1,2,4-Trimethylbenzene	ND		1.0	ug/L		02/28/12 15:06		1
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L		02/28/12 15:06		1
1,2-Dichlorobenzene	ND		1.0	ug/L		02/28/12 15:06		1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L		02/28/12 15:06		1
1,2-Dichloroethane	ND		1.0	ug/L		02/28/12 15:06		1
1,2-Dichloropropane	ND		1.0	ug/L		02/28/12 15:06		1
1,3,5-Trimethylbenzene	ND		1.0	ug/L		02/28/12 15:06		1
1,3-Dichlorobenzene	ND		1.0	ug/L		02/28/12 15:06		1
1,3-Dichloropropane	ND		1.0	ug/L		02/28/12 15:06		1
1,4-Dichlorobenzene	ND		1.0	ug/L		02/28/12 15:06		1
2,2-Dichloropropane	ND		1.0	ug/L		02/28/12 15:06		1
2-Chlorotoluene	ND		1.0	ug/L		02/28/12 15:06		1
4-Chlorotoluene	ND		1.0	ug/L		02/28/12 15:06		1
p-Isopropyltoluene	ND		1.0	ug/L		02/28/12 15:06		1
Benzene	ND		0.50	ug/L		02/28/12 15:06		1
Bromobenzene	ND		1.0	ug/L		02/28/12 15:06		1
Bromochloromethane	ND		1.0	ug/L		02/28/12 15:06		1
Bromodichloromethane	ND		1.0	ug/L		02/28/12 15:06		1
Bromoform	ND		1.0	ug/L		02/28/12 15:06		1
Bromomethane	ND		1.0	ug/L		02/28/12 15:06		1
Carbon tetrachloride	ND		0.50	ug/L		02/28/12 15:06		1
Chlorobenzene	ND		1.0	ug/L		02/28/12 15:06		1
Chloroethane	ND		1.0	ug/L		02/28/12 15:06		1
Chloroform	ND		1.0	ug/L		02/28/12 15:06		1
Chloromethane	ND		1.0	ug/L		02/28/12 15:06		1
cis-1,2-Dichloroethene	ND		1.0	ug/L		02/28/12 15:06		1
cis-1,3-Dichloropropene	ND		0.50	ug/L		02/28/12 15:06		1
Dibromochloromethane	ND		1.0	ug/L		02/28/12 15:06		1
Dibromomethane	ND		1.0	ug/L		02/28/12 15:06		1
Dichlorodifluoromethane	ND		1.0	ug/L		02/28/12 15:06		1
Ethylbenzene	ND		1.0	ug/L		02/28/12 15:06		1
Hexachlorobutadiene	ND		1.0	ug/L		02/28/12 15:06		1
Isopropylbenzene	ND		1.0	ug/L		02/28/12 15:06		1
m,p-Xylene	ND		1.0	ug/L		02/28/12 15:06		1
Methylene Chloride	ND		5.0	ug/L		02/28/12 15:06		1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L		02/28/12 15:06		1
Naphthalene	ND		1.0	ug/L		02/28/12 15:06		1
n-Butylbenzene	ND		1.0	ug/L		02/28/12 15:06		1
N-Propylbenzene	ND		1.0	ug/L		02/28/12 15:06		1
o-Xylene	ND		1.0	ug/L		02/28/12 15:06		1
sec-Butylbenzene	ND		1.0	ug/L		02/28/12 15:06		1
Styrene	ND		1.0	ug/L		02/28/12 15:06		1
tert-Butylbenzene	ND		1.0	ug/L		02/28/12 15:06		1
Tetrachloroethene	74		1.0	ug/L		02/28/12 15:06		1
Toluene	ND		1.0	ug/L		02/28/12 15:06		1
trans-1,2-Dichloroethene	ND		1.0	ug/L		02/28/12 15:06		1

Client Sample Results

Client: CDM Smith, Inc.

TestAmerica Job ID: 440-3337-1

Project/Site: Omega Chemical Wastewater

Client Sample ID: OC_EW5_SP150_022112

Lab Sample ID: 440-3337-8

Date Collected: 02/21/12 14:30

Matrix: Water

Date Received: 02/21/12 18:05

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.50	ug/L		02/28/12 15:06		1
Trichloroethene	7.1		1.0	ug/L		02/28/12 15:06		1
Trichlorofluoromethane	44		1.0	ug/L		02/28/12 15:06		1
Vinyl chloride	ND		0.50	ug/L		02/28/12 15:06		1
Acetone	ND		10	ug/L		02/28/12 15:06		1
1,1,2-Trichloro-1,2,2-trifluoroethane	65		5.0	ug/L		02/28/12 15:06		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		80 - 120			02/28/12 15:06		1
Dibromofluoromethane (Surr)	94		80 - 120			02/28/12 15:06		1
Toluene-d8 (Surr)	102		80 - 120			02/28/12 15:06		1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.47	ug/L		02/26/12 16:57	03/03/12 05:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	62		30 - 120			02/26/12 16:57	03/03/12 05:32	1

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Omega Chemical Wastewater

TestAmerica Job ID: 440-3337-1

Client Sample ID: OC_SP220B_EFF_022112

Lab Sample ID: 440-3337-1

Matrix: Water

Date Collected: 02/21/12 11:55

Date Received: 02/21/12 18:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	9876	02/28/12 10:33	WC	TAL IRV
Total/NA	Prep	3520C			1060 mL	1 mL	9633	02/26/12 16:57	DM	TAL IRV
Total/NA	Analysis	8270C SIM		10			10838	03/03/12 03:40	UP	TAL IRV

Client Sample ID: OC_SP210_INF_022112

Lab Sample ID: 440-3337-2

Matrix: Water

Date Collected: 02/21/12 11:45

Date Received: 02/21/12 18:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	10144	02/29/12 13:48	WC	TAL IRV
Total/NA	Analysis	8260B		40	10 mL	10 mL	9876	02/28/12 12:04	WC	TAL IRV

Client Sample ID: OC_TB-022112

Lab Sample ID: 440-3337-3

Matrix: Water

Date Collected: 02/21/12 11:30

Date Received: 02/21/12 18:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	9876	02/28/12 12:34	WC	TAL IRV

Client Sample ID: OC_EW1_SP110_022112

Lab Sample ID: 440-3337-4

Matrix: Water

Date Collected: 02/21/12 15:25

Date Received: 02/21/12 18:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	10144	02/29/12 11:51	WC	TAL IRV
Total/NA	Analysis	8260B	DL	5	10 mL	10 mL	9876	02/28/12 13:05	WC	TAL IRV
Total/NA	Prep	3520C			1060 mL	1 mL	9633	02/26/12 16:57	DM	TAL IRV
Total/NA	Analysis	8270C SIM		1			10838	03/03/12 04:02	UP	TAL IRV

Client Sample ID: OC_EW2_SP120_022112

Lab Sample ID: 440-3337-5

Matrix: Water

Date Collected: 02/21/12 15:10

Date Received: 02/21/12 18:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	10144	02/29/12 14:17	WC	TAL IRV
Total/NA	Analysis	8260B		40	10 mL	10 mL	9876	02/28/12 13:35	WC	TAL IRV
Total/NA	Prep	3520C			500 mL	1 mL	9633	02/26/12 16:57	DM	TAL IRV
Total/NA	Analysis	8270C SIM		20			10838	03/03/12 04:25	UP	TAL IRV

Lab Chronicle

Client: CDM Smith, Inc.

TestAmerica Job ID: 440-3337-1

Project/Site: Omega Chemical Wastewater

Client Sample ID: OC_EW3_SP130_022112

Lab Sample ID: 440-3337-6

Matrix: Water

Date Collected: 02/21/12 15:00

Date Received: 02/21/12 18:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	10 mL	10 mL	9876	02/28/12 14:05	WC	TAL IRV
Total/NA	Prep	3520C			1050 mL	1 mL	9633	02/26/12 16:57	DM	TAL IRV
Total/NA	Analysis	8270C SIM		1			10838	03/03/12 04:47	UP	TAL IRV

Client Sample ID: OC_EW4_SP140_022112

Lab Sample ID: 440-3337-7

Matrix: Water

Date Collected: 02/21/12 14:45

Date Received: 02/21/12 18:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	10 mL	10 mL	9876	02/28/12 14:35	WC	TAL IRV
Total/NA	Prep	3520C			1060 mL	1 mL	9633	02/26/12 16:57	DM	TAL IRV
Total/NA	Analysis	8270C SIM		10			11465	03/06/12 15:44	JV	TAL IRV

Client Sample ID: OC_EW5_SP150_022112

Lab Sample ID: 440-3337-8

Matrix: Water

Date Collected: 02/21/12 14:30

Date Received: 02/21/12 18:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	9876	02/28/12 15:06	WC	TAL IRV
Total/NA	Prep	3520C			1060 mL	1 mL	9633	02/26/12 16:57	DM	TAL IRV
Total/NA	Analysis	8270C SIM		1			10838	03/03/12 05:32	UP	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

QC Sample Results

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Wastewater

TestAmerica Job ID: 440-3337-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-10144/3

Matrix: Water

Analysis Batch: 10144

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			02/29/12 07:42	1
1,1,1-Trichloroethane	ND		1.0	ug/L			02/29/12 07:42	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			02/29/12 07:42	1
1,1,2-Trichloroethane	ND		1.0	ug/L			02/29/12 07:42	1
1,1-Dichloroethane	ND		1.0	ug/L			02/29/12 07:42	1
1,1-Dichloroethene	ND		1.0	ug/L			02/29/12 07:42	1
1,1-Dichloropropene	ND		1.0	ug/L			02/29/12 07:42	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			02/29/12 07:42	1
1,2,3-Trichloropropane	ND		1.0	ug/L			02/29/12 07:42	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			02/29/12 07:42	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			02/29/12 07:42	1
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L			02/29/12 07:42	1
1,2-Dichlorobenzene	ND		1.0	ug/L			02/29/12 07:42	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			02/29/12 07:42	1
1,2-Dichloroethane	ND		1.0	ug/L			02/29/12 07:42	1
1,2-Dichloropropane	ND		1.0	ug/L			02/29/12 07:42	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			02/29/12 07:42	1
1,3-Dichlorobenzene	ND		1.0	ug/L			02/29/12 07:42	1
1,3-Dichloropropane	ND		1.0	ug/L			02/29/12 07:42	1
1,4-Dichlorobenzene	ND		1.0	ug/L			02/29/12 07:42	1
2,2-Dichloropropane	ND		1.0	ug/L			02/29/12 07:42	1
2-Chlorotoluene	ND		1.0	ug/L			02/29/12 07:42	1
4-Chlorotoluene	ND		1.0	ug/L			02/29/12 07:42	1
p-Isopropyltoluene	ND		1.0	ug/L			02/29/12 07:42	1
Benzene	ND		0.50	ug/L			02/29/12 07:42	1
Bromobenzene	ND		1.0	ug/L			02/29/12 07:42	1
Bromochloromethane	ND		1.0	ug/L			02/29/12 07:42	1
Bromodichloromethane	ND		1.0	ug/L			02/29/12 07:42	1
Bromoform	ND		1.0	ug/L			02/29/12 07:42	1
Bromomethane	ND		1.0	ug/L			02/29/12 07:42	1
Carbon tetrachloride	ND		0.50	ug/L			02/29/12 07:42	1
Chlorobenzene	ND		1.0	ug/L			02/29/12 07:42	1
Chloroethane	ND		1.0	ug/L			02/29/12 07:42	1
Chloroform	ND		1.0	ug/L			02/29/12 07:42	1
Chloromethane	ND		1.0	ug/L			02/29/12 07:42	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			02/29/12 07:42	1
cis-1,3-Dichloropropene	ND		0.50	ug/L			02/29/12 07:42	1
Dibromochloromethane	ND		1.0	ug/L			02/29/12 07:42	1
Dibromomethane	ND		1.0	ug/L			02/29/12 07:42	1
Dichlorodifluoromethane	ND		1.0	ug/L			02/29/12 07:42	1
Ethylbenzene	ND		1.0	ug/L			02/29/12 07:42	1
Hexachlorobutadiene	ND		1.0	ug/L			02/29/12 07:42	1
Isopropylbenzene	ND		1.0	ug/L			02/29/12 07:42	1
m,p-Xylene	ND		1.0	ug/L			02/29/12 07:42	1
Methylene Chloride	ND		5.0	ug/L			02/29/12 07:42	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			02/29/12 07:42	1
Naphthalene	ND		1.0	ug/L			02/29/12 07:42	1
n-Butylbenzene	ND		1.0	ug/L			02/29/12 07:42	1
N-Propylbenzene	ND		1.0	ug/L			02/29/12 07:42	1

QC Sample Results

Client: CDM Smith, Inc.

TestAmerica Job ID: 440-3337-1

Project/Site: Omega Chemical Wastewater

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-10144/3

Matrix: Water

Analysis Batch: 10144

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	ND	ND								
o-Xylene	ND	ND			1.0	ug/L			02/29/12 07:42	1
sec-Butylbenzene	ND	ND			1.0	ug/L			02/29/12 07:42	1
Styrene	ND	ND			1.0	ug/L			02/29/12 07:42	1
tert-Butylbenzene	ND	ND			1.0	ug/L			02/29/12 07:42	1
Tetrachloroethene	ND	ND			1.0	ug/L			02/29/12 07:42	1
Toluene	ND	ND			1.0	ug/L			02/29/12 07:42	1
trans-1,2-Dichloroethene	ND	ND			1.0	ug/L			02/29/12 07:42	1
trans-1,3-Dichloropropene	ND	ND			0.50	ug/L			02/29/12 07:42	1
Trichloroethene	ND	ND			1.0	ug/L			02/29/12 07:42	1
Trichlorofluoromethane	ND	ND			1.0	ug/L			02/29/12 07:42	1
Vinyl chloride	ND	ND			0.50	ug/L			02/29/12 07:42	1
Acetone	ND	ND			10	ug/L			02/29/12 07:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND			5.0	ug/L			02/29/12 07:42	1

MB MB

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	ND	ND						
4-Bromofluorobenzene (Surr)	ND	ND	102		80 - 120			1
Dibromofluoromethane (Surr)	ND	ND	92		80 - 120			1
Toluene-d8 (Surr)	ND	ND	98		80 - 120			1

Lab Sample ID: LCS 440-10144/4

Matrix: Water

Analysis Batch: 10144

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS			Unit	D	%Rec	Limits	%Rec.
		Result	Qualifier	Limits					
1,1,1,2-Tetrachloroethane	25.0	23.3		ug/L			93	70 - 130	
1,1,1-Trichloroethane	25.0	24.8		ug/L			99	65 - 135	
1,1,2,2-Tetrachloroethane	25.0	26.7		ug/L			107	55 - 130	
1,1,2-Trichloroethane	25.0	23.7		ug/L			95	70 - 125	
1,1-Dichloroethane	25.0	23.7		ug/L			95	70 - 125	
1,1-Dichloroethene	25.0	23.3		ug/L			93	70 - 125	
1,1-Dichloropropene	25.0	25.7		ug/L			103	75 - 130	
1,2,3-Trichlorobenzene	25.0	25.3		ug/L			101	65 - 125	
1,2,3-Trichloropropane	25.0	24.8		ug/L			99	60 - 130	
1,2,4-Trichlorobenzene	25.0	26.4		ug/L			106	70 - 135	
1,2,4-Trimethylbenzene	25.0	26.5		ug/L			106	75 - 125	
1,2-Dibromo-3-Chloropropane	25.0	26.0		ug/L			104	50 - 135	
1,2-Dichlorobenzene	25.0	24.9		ug/L			100	75 - 120	
1,2-Dibromoethane (EDB)	25.0	25.3		ug/L			101	75 - 125	
1,2-Dichloroethane	25.0	24.9		ug/L			100	60 - 140	
1,2-Dichloropropene	25.0	24.0		ug/L			96	70 - 125	
1,3,5-Trimethylbenzene	25.0	26.7		ug/L			107	75 - 125	
1,3-Dichlorobenzene	25.0	25.6		ug/L			102	75 - 120	
1,3-Dichloropropane	25.0	24.7		ug/L			99	70 - 120	
1,4-Dichlorobenzene	25.0	24.9		ug/L			100	75 - 120	
2,2-Dichloropropane	25.0	32.1		ug/L			128	65 - 140	
2-Chlorotoluene	25.0	26.3		ug/L			105	70 - 125	
4-Chlorotoluene	25.0	26.9		ug/L			108	75 - 125	
p-Isopropyltoluene	25.0	27.4		ug/L			110	75 - 125	
Benzene	25.0	23.6		ug/L			94	70 - 120	

QC Sample Results

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Wastewater

TestAmerica Job ID: 440-3337-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-10144/4

Matrix: Water

Analysis Batch: 10144

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec.
		Result	Qualifier				
Bromobenzene	25.0	23.9		ug/L	96	75 - 120	
Bromochloromethane	25.0	21.5		ug/L	86	70 - 130	
Bromodichloromethane	25.0	23.8		ug/L	95	70 - 135	
Bromoform	25.0	25.3		ug/L	101	55 - 130	
Bromomethane	25.0	24.2		ug/L	97	65 - 140	
Carbon tetrachloride	25.0	28.2		ug/L	113	65 - 140	
Chlorobenzene	25.0	25.5		ug/L	102	75 - 120	
Chloroethane	25.0	23.0		ug/L	92	60 - 140	
Chloroform	25.0	23.5		ug/L	94	70 - 130	
Chloromethane	25.0	22.6		ug/L	90	50 - 140	
cis-1,2-Dichloroethene	25.0	23.4		ug/L	94	70 - 125	
cis-1,3-Dichloropropene	25.0	24.0		ug/L	96	75 - 125	
Dibromochloromethane	25.0	22.9		ug/L	92	70 - 140	
Dibromomethane	25.0	23.6		ug/L	94	70 - 125	
Dichlorodifluoromethane	25.0	24.8		ug/L	99	35 - 155	
Ethylbenzene	25.0	25.7		ug/L	103	75 - 125	
Hexachlorobutadiene	25.0	28.8		ug/L	115	65 - 135	
Isopropylbenzene	25.0	24.2		ug/L	97	75 - 130	
m,p-Xylene	50.0	51.6		ug/L	103	75 - 125	
Methylene Chloride	25.0	19.2		ug/L	77	55 - 130	
Methyl-t-Butyl Ether (MTBE)	25.0	24.2		ug/L	97	60 - 135	
Naphthalene	25.0	25.9		ug/L	104	55 - 135	
n-Butylbenzene	25.0	28.6		ug/L	114	70 - 130	
N-Propylbenzene	25.0	26.9		ug/L	108	75 - 130	
o-Xylene	25.0	25.1		ug/L	100	75 - 125	
sec-Butylbenzene	25.0	27.8		ug/L	111	70 - 125	
Styrene	25.0	25.4		ug/L	102	75 - 130	
tert-Butylbenzene	25.0	27.3		ug/L	109	70 - 125	
Tetrachloroethene	25.0	25.3		ug/L	101	70 - 125	
Toluene	25.0	24.3		ug/L	97	70 - 120	
trans-1,2-Dichloroethene	25.0	23.5		ug/L	94	70 - 125	
trans-1,3-Dichloropropene	25.0	24.9		ug/L	100	70 - 125	
Trichloroethene	25.0	24.0		ug/L	96	70 - 125	
Trichlorofluoromethane	25.0	27.4		ug/L	110	65 - 145	
Vinyl chloride	25.0	23.8		ug/L	95	55 - 135	
Acetone	25.0	22.9		ug/L	92	30 - 140	

Surrogate	LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	90		80 - 120
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: 440-3337-4 MS

Matrix: Water

Analysis Batch: 10144

Client Sample ID: OC_EW1_SP110_022112
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
1,1,1,2-Tetrachloroethane	ND		25.0	25.7		ug/L	103	65 - 140	
1,1,1-Trichloroethane	ND		25.0	26.0		ug/L	101	65 - 140	

QC Sample Results

Client: CDM Smith, Inc.

TestAmerica Job ID: 440-3337-1

Project/Site: Omega Chemical Wastewater

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-3337-4 MS

Client Sample ID: OC_EW1_SP110_022112

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 10144

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
1,1,2,2-Tetrachloroethane	ND		25.0	27.7		ug/L	111	55 - 135	
1,1,2-Trichloroethane	ND		25.0	25.4		ug/L	102	65 - 130	
1,1-Dichloroethane	1.2		25.0	26.7		ug/L	102	65 - 130	
1,1-Dichloroethene	160		25.0	189.4		ug/L	116	60 - 130	
1,1-Dichloropropene	ND		25.0	25.5		ug/L	102	70 - 135	
1,2,3-Trichlorobenzene	ND		25.0	26.7		ug/L	107	60 - 135	
1,2,3-Trichloropropane	ND		25.0	25.4		ug/L	102	55 - 135	
1,2,4-Trichlorobenzene	ND		25.0	27.9		ug/L	112	65 - 135	
1,2,4-Trimethylbenzene	ND		25.0	26.5		ug/L	106	55 - 135	
1,2-Dibromo-3-Chloropropane	ND		25.0	26.4		ug/L	106	45 - 145	
1,2-Dichlorobenzene	ND		25.0	26.2		ug/L	105	75 - 125	
1,2-Dibromoethane (EDB)	ND		25.0	27.2		ug/L	109	70 - 130	
1,2-Dichloroethane	ND		25.0	27.4		ug/L	110	60 - 140	
1,2-Dichloropropene	ND		25.0	25.7		ug/L	103	65 - 130	
1,3,5-Trimethylbenzene	ND		25.0	26.7		ug/L	107	70 - 130	
1,3-Dichlorobenzene	ND		25.0	26.5		ug/L	106	75 - 125	
1,3-Dichloropropane	ND		25.0	26.3		ug/L	105	65 - 135	
1,4-Dichlorobenzene	ND		25.0	25.8		ug/L	103	75 - 125	
2,2-Dichloropropene	ND		25.0	33.8		ug/L	135	60 - 145	
2-Chlorotoluene	ND		25.0	26.9		ug/L	108	65 - 135	
4-Chlorotoluene	ND		25.0	27.6		ug/L	110	70 - 135	
p-Isopropyltoluene	ND		25.0	27.1		ug/L	108	65 - 130	
Benzene	ND		25.0	24.7		ug/L	99	65 - 125	
Bromobenzene	ND		25.0	25.0		ug/L	100	70 - 125	
Bromochloromethane	ND		25.0	23.9		ug/L	96	65 - 135	
Bromodichloromethane	ND		25.0	26.2		ug/L	105	70 - 135	
Bromoform	ND		25.0	27.8		ug/L	111	55 - 135	
Bromomethane	ND		25.0	23.0		ug/L	92	55 - 145	
Carbon tetrachloride	ND		25.0	28.5		ug/L	114	65 - 140	
Chlorobenzene	ND		25.0	26.2		ug/L	105	75 - 125	
Chloroethane	ND		25.0	22.2		ug/L	89	55 - 140	
Chloroform	3.2		25.0	29.1		ug/L	104	65 - 135	
Chloromethane	ND		25.0	18.7		ug/L	75	45 - 145	
cis-1,2-Dichloroethene	ND		25.0	25.6		ug/L	102	65 - 130	
cis-1,3-Dichloropropene	ND		25.0	26.1		ug/L	104	70 - 130	
Dibromochloromethane	ND		25.0	25.0		ug/L	100	65 - 140	
Dibromomethane	ND		25.0	25.9		ug/L	104	65 - 135	
Dichlorodifluoromethane	ND		25.0	16.4		ug/L	66	25 - 155	
Ethylbenzene	ND		25.0	26.0		ug/L	104	65 - 130	
Hexachlorobutadiene	ND		25.0	28.0		ug/L	112	60 - 135	
Isopropylbenzene	ND		25.0	23.9		ug/L	96	70 - 135	
m,p-Xylene	ND		50.0	52.7		ug/L	105	65 - 130	
Methylene Chloride	ND		25.0	25.2		ug/L	101	50 - 135	
Methyl-t-Butyl Ether (MTBE)	ND		25.0	29.2		ug/L	117	55 - 145	
Naphthalene	ND		25.0	26.8		ug/L	107	50 - 140	
n-Butylbenzene	ND		25.0	27.9		ug/L	112	65 - 135	
N-Propylbenzene	ND		25.0	26.8		ug/L	107	70 - 135	
o-Xylene	ND		25.0	25.7		ug/L	103	65 - 125	
sec-Butylbenzene	ND		25.0	27.3		ug/L	109	70 - 125	
Styrene	ND		25.0	25.4		ug/L	102	50 - 145	

QC Sample Results

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Wastewater

TestAmerica Job ID: 440-3337-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-3337-4 MS

Matrix: Water

Analysis Batch: 10144

Client Sample ID: OC_EW1_SP110_022112

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
tert-Butylbenzene	ND		25.0	26.9		ug/L		108	65 - 130
Tetrachloroethene	790		25.0	788	E 4	ug/L		-18	65 - 130
Toluene	ND		25.0	25.4		ug/L		102	70 - 125
trans-1,2-Dichloroethene	ND		25.0	25.0		ug/L		98	65 - 130
trans-1,3-Dichloropropene	ND		25.0	27.0		ug/L		108	65 - 135
Trichloroethene	76		25.0	106		ug/L		120	65 - 125
Trichlorofluoromethane	50		25.0	76.8		ug/L		109	60 - 145
Vinyl chloride	ND		25.0	20.8		ug/L		83	45 - 140
Acetone	ND		25.0	18.5		ug/L		74	20 - 150
Surrogate									
4-Bromofluorobenzene (Surr)	103	%Recovery	Qualifier	Limits					
Dibromofluoromethane (Surr)	96			80 - 120					
Toluene-d8 (Surr)	99			80 - 120					

Lab Sample ID: 440-3337-4 MSD

Matrix: Water

Analysis Batch: 10144

Client Sample ID: OC_EW1_SP110_022112

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		25.0	26.6		ug/L		106	65 - 140	3	20
1,1,1-Trichloroethane	ND		25.0	26.9		ug/L		105	65 - 140	3	20
1,1,2,2-Tetrachloroethane	ND		25.0	29.4		ug/L		118	55 - 135	6	30
1,1,2-Trichloroethane	ND		25.0	26.2		ug/L		105	65 - 130	3	25
1,1-Dichloroethane	1.2		25.0	26.7		ug/L		102	65 - 130	0	20
1,1-Dichloroethene	160		25.0	181	4	ug/L		82	60 - 130	5	20
1,1-Dichloropropene	ND		25.0	26.2		ug/L		105	70 - 135	3	20
1,2,3-Trichlorobenzene	ND		25.0	29.1		ug/L		116	60 - 135	9	20
1,2,3-Trichloropropane	ND		25.0	26.6		ug/L		106	55 - 135	5	30
1,2,4-Trichlorobenzene	ND		25.0	29.7		ug/L		119	65 - 135	6	20
1,2,4-Trimethylbenzene	ND		25.0	27.8		ug/L		111	55 - 135	5	25
1,2-Dibromo-3-Chloropropane	ND		25.0	28.9		ug/L		116	45 - 145	9	30
1,2-Dichlorobenzene	ND		25.0	27.2		ug/L		109	75 - 125	4	20
1,2-Dibromoethane (EDB)	ND		25.0	28.1		ug/L		112	70 - 130	3	25
1,2-Dichloroethane	ND		25.0	27.6		ug/L		110	60 - 140	1	20
1,2-Dichloropropene	ND		25.0	26.4		ug/L		106	65 - 130	3	20
1,3,5-Trimethylbenzene	ND		25.0	28.0		ug/L		112	70 - 130	5	20
1,3-Dichlorobenzene	ND		25.0	27.5		ug/L		110	75 - 125	4	20
1,3-Dichloropropene	ND		25.0	ND	F	ug/L		3	65 - 135	189	25
1,4-Dichlorobenzene	ND		25.0	27.3		ug/L		109	75 - 125	6	20
2,2-Dichloropropane	ND		25.0	33.9		ug/L		136	60 - 145	0	25
2-Chlorotoluene	ND		25.0	27.7		ug/L		111	65 - 135	3	20
4-Chlorotoluene	ND		25.0	28.5		ug/L		114	70 - 135	3	20
p-Isopropyltoluene	ND		25.0	28.7		ug/L		115	65 - 130	6	20
Benzene	ND		25.0	24.8		ug/L		99	65 - 125	0	20
Bromobenzene	ND		25.0	25.8		ug/L		103	70 - 125	3	20
Bromochloromethane	ND		25.0	23.6		ug/L		94	65 - 135	1	25
Bromodichloromethane	ND		25.0	26.7		ug/L		107	70 - 135	2	20
Bromoform	ND		25.0	28.7		ug/L		115	55 - 135	3	25

QC Sample Results

Client: CDM Smith, Inc.

TestAmerica Job ID: 440-3337-1

Project/Site: Omega Chemical Wastewater

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-3337-4 MSD

Matrix: Water

Analysis Batch: 10144

Client Sample ID: OC_EW1_SP110_022112

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD		
Bromomethane	ND		25.0	23.0		ug/L	92	55 - 145	0	25		
Carbon tetrachloride	ND		25.0	29.9		ug/L	120	65 - 140	5	25		
Chlorobenzene	ND		25.0	26.9		ug/L	108	75 - 125	3	20		
Chloroethane	ND		25.0	22.2		ug/L	89	55 - 140	0	25		
Chloroform	3.2		25.0	28.9		ug/L	103	65 - 135	1	20		
Chloromethane	ND		25.0	19.1		ug/L	76	45 - 145	2	25		
cis-1,2-Dichloroethene	ND		25.0	25.7		ug/L	103	65 - 130	0	20		
cis-1,3-Dichloropropene	ND		25.0	26.9		ug/L	108	70 - 130	3	20		
Dibromochloromethane	ND		25.0	25.7		ug/L	103	65 - 140	3	25		
Dibromomethane	ND		25.0	26.6		ug/L	106	65 - 135	3	25		
Dichlorodifluoromethane	ND		25.0	16.8		ug/L	67	25 - 155	2	30		
Ethylbenzene	ND		25.0	26.6		ug/L	106	65 - 130	2	20		
Hexachlorobutadiene	ND		25.0	31.7		ug/L	127	60 - 135	12	20		
Isopropylbenzene	ND		25.0	25.1		ug/L	100	70 - 135	5	20		
m,p-Xylene	ND		50.0	53.9		ug/L	108	65 - 130	2	25		
Methylene Chloride	ND		25.0	24.9		ug/L	100	50 - 135	1	20		
Methyl-t-Butyl Ether (MTBE)	ND		25.0	29.2		ug/L	117	55 - 145	0	25		
Naphthalene	ND		25.0	29.6		ug/L	118	50 - 140	10	30		
n-Butylbenzene	ND		25.0	30.3		ug/L	121	65 - 135	8	20		
N-Propylbenzene	ND		25.0	28.1		ug/L	112	70 - 135	5	20		
o-Xylene	ND		25.0	26.3		ug/L	105	65 - 125	2	20		
sec-Butylbenzene	ND		25.0	28.7		ug/L	115	70 - 125	5	20		
Styrene	ND		25.0	25.9		ug/L	104	50 - 145	2	30		
tert-Butylbenzene	ND		25.0	28.4		ug/L	114	65 - 130	5	20		
Tetrachloroethene	790		25.0	762 E 4		ug/L	-124	65 - 130	3	20		
Toluene	ND		25.0	25.8		ug/L	103	70 - 125	2	20		
trans-1,2-Dichloroethene	ND		25.0	25.3		ug/L	99	65 - 130	1	20		
trans-1,3-Dichloropropene	ND		25.0	27.9		ug/L	112	65 - 135	3	25		
Trichloroethene	76		25.0	103		ug/L	109	65 - 125	3	20		
Trichlorofluoromethane	50		25.0	73.4		ug/L	96	60 - 145	5	25		
Vinyl chloride	ND		25.0	21.3		ug/L	85	45 - 140	2	30		
Acetone	ND		25.0	18.8		ug/L	75	20 - 150	2	35		

MSD **MSD**

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	94		80 - 120
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: MB 440-9876/4

Matrix: Water

Analysis Batch: 9876

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			02/28/12 08:53	1
1,1,1-Trichloroethane	ND		1.0	ug/L			02/28/12 08:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			02/28/12 08:53	1
1,1,2-Trichloroethane	ND		1.0	ug/L			02/28/12 08:53	1
1,1-Dichloroethane	ND		1.0	ug/L			02/28/12 08:53	1
1,1-Dichloroethene	ND		1.0	ug/L			02/28/12 08:53	1

QC Sample Results

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Wastewater

TestAmerica Job ID: 440-3337-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-9876/4

Matrix: Water

Analysis Batch: 9876

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	ND		1.0	ug/L			02/28/12 08:53	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			02/28/12 08:53	1
1,2,3-Trichloropropane	ND		1.0	ug/L			02/28/12 08:53	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			02/28/12 08:53	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			02/28/12 08:53	1
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L			02/28/12 08:53	1
1,2-Dichlorobenzene	ND		1.0	ug/L			02/28/12 08:53	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			02/28/12 08:53	1
1,2-Dichloroethane	ND		1.0	ug/L			02/28/12 08:53	1
1,2-Dichloropropane	ND		1.0	ug/L			02/28/12 08:53	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			02/28/12 08:53	1
1,3-Dichlorobenzene	ND		1.0	ug/L			02/28/12 08:53	1
1,3-Dichloropropene	ND		1.0	ug/L			02/28/12 08:53	1
1,4-Dichlorobenzene	ND		1.0	ug/L			02/28/12 08:53	1
2,2-Dichloropropane	ND		1.0	ug/L			02/28/12 08:53	1
2-Chlorotoluene	ND		1.0	ug/L			02/28/12 08:53	1
4-Chlorotoluene	ND		1.0	ug/L			02/28/12 08:53	1
p-Isopropyltoluene	ND		1.0	ug/L			02/28/12 08:53	1
Benzene	ND		0.50	ug/L			02/28/12 08:53	1
Bromobenzene	ND		1.0	ug/L			02/28/12 08:53	1
Bromochloromethane	ND		1.0	ug/L			02/28/12 08:53	1
Bromodichloromethane	ND		1.0	ug/L			02/28/12 08:53	1
Bromoform	ND		1.0	ug/L			02/28/12 08:53	1
Bromomethane	ND		1.0	ug/L			02/28/12 08:53	1
Carbon tetrachloride	ND		0.50	ug/L			02/28/12 08:53	1
Chlorobenzene	ND		1.0	ug/L			02/28/12 08:53	1
Chloroethane	ND		1.0	ug/L			02/28/12 08:53	1
Chloroform	ND		1.0	ug/L			02/28/12 08:53	1
Chloromethane	ND		1.0	ug/L			02/28/12 08:53	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			02/28/12 08:53	1
cis-1,3-Dichloropropene	ND		0.50	ug/L			02/28/12 08:53	1
Dibromochloromethane	ND		1.0	ug/L			02/28/12 08:53	1
Dibromomethane	ND		1.0	ug/L			02/28/12 08:53	1
Dichlorodifluoromethane	ND		1.0	ug/L			02/28/12 08:53	1
Ethylbenzene	ND		1.0	ug/L			02/28/12 08:53	1
Hexachlorobutadiene	ND		1.0	ug/L			02/28/12 08:53	1
Isopropylbenzene	ND		1.0	ug/L			02/28/12 08:53	1
m,p-Xylene	ND		1.0	ug/L			02/28/12 08:53	1
Methylene Chloride	ND		5.0	ug/L			02/28/12 08:53	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L			02/28/12 08:53	1
Naphthalene	ND		1.0	ug/L			02/28/12 08:53	1
n-Butylbenzene	ND		1.0	ug/L			02/28/12 08:53	1
N-Propylbenzene	ND		1.0	ug/L			02/28/12 08:53	1
o-Xylene	ND		1.0	ug/L			02/28/12 08:53	1
sec-Butylbenzene	ND		1.0	ug/L			02/28/12 08:53	1
Styrene	ND		1.0	ug/L			02/28/12 08:53	1
tert-Butylbenzene	ND		1.0	ug/L			02/28/12 08:53	1
Tetrachloroethene	ND		1.0	ug/L			02/28/12 08:53	1
Toluene	ND		1.0	ug/L			02/28/12 08:53	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			02/28/12 08:53	1

QC Sample Results

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Wastewater

TestAmerica Job ID: 440-3337-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-9876/4

Matrix: Water

Analysis Batch: 9876

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB		RL	Unit	D	Prepared	Analyzed	Dil Fac	
	Result	Qualifier							
trans-1,3-Dichloropropene	ND		0.50	ug/L			02/28/12 08:53	1	
Trichloroethene	ND		1.0	ug/L			02/28/12 08:53	1	
Trichlorofluoromethane	ND		1.0	ug/L			02/28/12 08:53	1	
Vinyl chloride	ND		0.50	ug/L			02/28/12 08:53	1	
Acetone	ND		10	ug/L			02/28/12 08:53	1	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	ug/L			02/28/12 08:53	1	
MB		MB							
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	95		80 - 120				02/28/12 08:53	1	
Dibromofluoromethane (Surr)	91		80 - 120				02/28/12 08:53	1	
Toluene-d8 (Surr)	100		80 - 120				02/28/12 08:53	1	

Lab Sample ID: LCS 440-9876/5

Matrix: Water

Analysis Batch: 9876

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike		LCS	LCS	Unit	D	%Rec	Limits	%Rec.
	Added	Result	Qualifier	Unit	D	%Rec	Limits		
1,1,1,2-Tetrachloroethane	25.0	22.3		ug/L		89	70 - 130		
1,1,1-Trichloroethane	25.0	21.7		ug/L		87	65 - 135		
1,1,2,2-Tetrachloroethane	25.0	26.9		ug/L		108	55 - 130		
1,1,2-Trichloroethane	25.0	25.2		ug/L		101	70 - 125		
1,1-Dichloroethane	25.0	25.8		ug/L		103	70 - 125		
1,1-Dichloroethene	25.0	26.5		ug/L		106	70 - 125		
1,1-Dichloropropene	25.0	24.1		ug/L		96	75 - 130		
1,2,3-Trichlorobenzene	25.0	30.0		ug/L		120	65 - 125		
1,2,3-Trichloropropane	25.0	24.3		ug/L		97	60 - 130		
1,2,4-Trichlorobenzene	25.0	23.3		ug/L		93	70 - 135		
1,2,4-Trimethylbenzene	25.0	26.6		ug/L		106	75 - 125		
1,2-Dibromo-3-Chloropropane	25.0	24.1		ug/L		96	50 - 135		
1,2-Dichlorobenzene	25.0	24.7		ug/L		99	75 - 120		
1,2-Dibromoethane (EDB)	25.0	25.4		ug/L		102	75 - 125		
1,2-Dichloroethane	25.0	22.0		ug/L		88	60 - 140		
1,2-Dichloropropane	25.0	25.5		ug/L		102	70 - 125		
1,3,5-Trimethylbenzene	25.0	26.3		ug/L		105	75 - 125		
1,3-Dichlorobenzene	25.0	24.5		ug/L		98	75 - 120		
1,3-Dichloropropane	25.0	25.1		ug/L		100	70 - 120		
1,4-Dichlorobenzene	25.0	24.0		ug/L		96	75 - 120		
2,2-Dichloropropane	25.0	24.2		ug/L		97	65 - 140		
2-Chlorotoluene	25.0	25.6		ug/L		102	70 - 125		
4-Chlorotoluene	25.0	25.6		ug/L		102	75 - 125		
p-Isopropyltoluene	25.0	25.5		ug/L		102	75 - 125		
Benzene	25.0	24.6		ug/L		98	70 - 120		
Bromobenzene	25.0	24.3		ug/L		97	75 - 120		
Bromochloromethane	25.0	24.2		ug/L		97	70 - 130		
Bromodichloromethane	25.0	22.9		ug/L		92	70 - 135		
Bromoform	25.0	20.4		ug/L		82	55 - 130		
Bromomethane	25.0	25.8		ug/L		103	65 - 140		
Carbon tetrachloride	25.0	20.2		ug/L		81	65 - 140		
Chlorobenzene	25.0	24.3		ug/L		97	75 - 120		

QC Sample Results

Client: CDM Smith, Inc.

TestAmerica Job ID: 440-3337-1

Project/Site: Omega Chemical Wastewater

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-9876/5

Matrix: Water

Analysis Batch: 9876

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec.
		Result	Qualifier				
Chloroethane	25.0	25.8		ug/L	103	60 - 140	
Chloroform	25.0	22.7		ug/L	91	70 - 130	
Chloromethane	25.0	21.2		ug/L	85	50 - 140	
cis-1,2-Dichloroethene	25.0	28.1		ug/L	112	70 - 125	
cis-1,3-Dichloropropene	25.0	24.7		ug/L	99	75 - 125	
Dibromochloromethane	25.0	22.8		ug/L	91	70 - 140	
Dibromomethane	25.0	23.5		ug/L	94	70 - 125	
Dichlorodifluoromethane	25.0	18.3		ug/L	73	35 - 155	
Ethylbenzene	25.0	25.3		ug/L	101	75 - 125	
Hexachlorobutadiene	25.0	21.4		ug/L	86	65 - 135	
Isopropylbenzene	25.0	24.1		ug/L	96	75 - 130	
m,p-Xylene	50.0	53.0		ug/L	106	75 - 125	
Methylene Chloride	25.0	25.3		ug/L	101	55 - 130	
Methyl-t-Butyl Ether (MTBE)	25.0	24.7		ug/L	99	60 - 135	
Naphthalene	25.0	25.5		ug/L	102	55 - 135	
n-Butylbenzene	25.0	27.5		ug/L	110	70 - 130	
N-Propylbenzene	25.0	27.3		ug/L	109	75 - 130	
o-Xylene	25.0	26.6		ug/L	106	75 - 125	
sec-Butylbenzene	25.0	26.9		ug/L	108	70 - 125	
Styrene	25.0	25.5		ug/L	102	75 - 130	
tert-Butylbenzene	25.0	25.8		ug/L	103	70 - 125	
Tetrachloroethene	25.0	23.7		ug/L	95	70 - 125	
Toluene	25.0	25.0		ug/L	100	70 - 120	
trans-1,2-Dichloroethene	25.0	27.3		ug/L	109	70 - 125	
trans-1,3-Dichloropropene	25.0	23.1		ug/L	92	70 - 125	
Trichloroethene	25.0	23.5		ug/L	94	70 - 125	
Trichlorofluoromethane	25.0	21.6		ug/L	86	65 - 145	
Vinyl chloride	25.0	19.3		ug/L	77	55 - 135	
Acetone	25.0	21.6		ug/L	86	30 - 140	

Surrogate	LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	94		80 - 120
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: 440-3337-1 MS

Matrix: Water

Analysis Batch: 9876

Client Sample ID: OC_SP220B_EFF_022112
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
1,1,1,2-Tetrachloroethane	ND		25.0	26.7		ug/L	107	65 - 140	
1,1,1-Trichloroethane	ND		25.0	25.8		ug/L	103	65 - 140	
1,1,2,2-Tetrachloroethane	ND		25.0	31.6		ug/L	126	55 - 135	
1,1,2-Trichloroethane	ND		25.0	31.2		ug/L	125	65 - 130	
1,1-Dichloroethane	ND		25.0	31.0		ug/L	124	65 - 130	
1,1-Dichloroethene	ND		25.0	28.7		ug/L	115	60 - 130	
1,1-Dichloropropene	ND		25.0	28.9		ug/L	116	70 - 135	
1,2,3-Trichlorobenzene	ND		25.0	37.6 F		ug/L	150	60 - 135	
1,2,3-Trichloropropane	ND		25.0	28.4		ug/L	114	55 - 135	

QC Sample Results

Client: CDM Smith, Inc.

TestAmerica Job ID: 440-3337-1

Project/Site: Omega Chemical Wastewater

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-3337-1 MS

Client Sample ID: OC_SP220B_EFF_022112

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 9876

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
1,2,4-Trichlorobenzene	ND		25.0	28.3		ug/L	113	65 - 135	
1,2,4-Trimethylbenzene	ND		25.0	33.0		ug/L	132	55 - 135	
1,2-Dibromo-3-Chloropropane	ND		25.0	26.1		ug/L	104	45 - 145	
1,2-Dichlorobenzene	ND		25.0	30.2		ug/L	121	75 - 125	
1,2-Dibromoethane (EDB)	ND		25.0	29.3		ug/L	117	70 - 130	
1,2-Dichloroethane	ND		25.0	26.5		ug/L	106	60 - 140	
1,2-Dichloropropane	ND		25.0	31.2		ug/L	125	65 - 130	
1,3,5-Trimethylbenzene	ND		25.0	32.0		ug/L	128	70 - 130	
1,3-Dichlorobenzene	ND		25.0	29.8		ug/L	119	75 - 125	
1,3-Dichloropropane	ND		25.0	29.0		ug/L	116	65 - 135	
1,4-Dichlorobenzene	ND		25.0	29.4		ug/L	118	75 - 125	
2,2-Dichloropropane	ND		25.0	29.1		ug/L	116	60 - 145	
2-Chlorotoluene	ND		25.0	30.9		ug/L	124	65 - 135	
4-Chlorotoluene	ND		25.0	31.2		ug/L	125	70 - 135	
p-Isopropyltoluene	ND		25.0	31.0		ug/L	124	65 - 130	
Benzene	ND		25.0	30.1		ug/L	120	65 - 125	
Bromobenzene	ND		25.0	30.1		ug/L	120	70 - 125	
Bromochloromethane	ND		25.0	28.3		ug/L	113	65 - 135	
Bromodichloromethane	ND		25.0	27.4		ug/L	110	70 - 135	
Bromoform	ND		25.0	23.6		ug/L	94	55 - 135	
Bromomethane	ND		25.0	30.3		ug/L	121	55 - 145	
Carbon tetrachloride	ND		25.0	24.4		ug/L	98	65 - 140	
Chlorobenzene	ND		25.0	28.9		ug/L	116	75 - 125	
Chloroethane	ND		25.0	29.0		ug/L	116	55 - 140	
Chloroform	ND		25.0	27.4		ug/L	110	65 - 135	
Chloromethane	ND		25.0	26.5		ug/L	106	45 - 145	
cis-1,2-Dichloroethene	ND		25.0	33.6 F		ug/L	134	65 - 130	
cis-1,3-Dichloropropene	ND		25.0	29.4		ug/L	118	70 - 130	
Dibromochloromethane	ND		25.0	26.9		ug/L	108	65 - 140	
Dibromomethane	ND		25.0	28.4		ug/L	114	65 - 135	
Dichlorodifluoromethane	ND		25.0	22.9		ug/L	90	25 - 155	
Ethylbenzene	ND		25.0	29.6		ug/L	118	65 - 130	
Hexachlorobutadiene	ND		25.0	26.0		ug/L	104	60 - 135	
Isopropylbenzene	ND		25.0	29.2		ug/L	117	70 - 135	
m,p-Xylene	ND		50.0	62.9		ug/L	126	65 - 130	
Methylene Chloride	ND		25.0	30.2		ug/L	121	50 - 135	
Methyl-t-Butyl Ether (MTBE)	ND		25.0	30.3		ug/L	121	55 - 145	
Naphthalene	ND		25.0	30.0		ug/L	120	50 - 140	
n-Butylbenzene	ND		25.0	33.2		ug/L	133	65 - 135	
N-Propylbenzene	ND		25.0	33.1		ug/L	132	70 - 135	
o-Xylene	ND		25.0	31.4 F		ug/L	126	65 - 125	
sec-Butylbenzene	ND		25.0	32.8 F		ug/L	131	70 - 125	
Styrene	ND		25.0	30.0		ug/L	120	50 - 145	
tert-Butylbenzene	ND		25.0	31.5		ug/L	126	65 - 130	
Tetrachloroethene	ND		25.0	27.8		ug/L	111	65 - 130	
Toluene	ND		25.0	30.9		ug/L	124	70 - 125	
trans-1,2-Dichloroethene	ND		25.0	32.8 F		ug/L	131	65 - 130	
trans-1,3-Dichloropropene	ND		25.0	27.6		ug/L	110	65 - 135	
Trichloroethene	ND		25.0	28.1		ug/L	112	65 - 125	
Trichlorofluoromethane	ND		25.0	26.0		ug/L	104	60 - 145	

QC Sample Results

Client: CDM Smith, Inc.

TestAmerica Job ID: 440-3337-1

Project/Site: Omega Chemical Wastewater

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-3337-1 MS

Client Sample ID: OC_SP220B_EFF_022112

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 9876

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Vinyl chloride	ND		25.0	24.8		ug/L		99	45 - 140
Acetone	ND		25.0	21.2		ug/L		85	20 - 150
Surrogate									
4-Bromofluorobenzene (Surr)	100			80 - 120					
Dibromofluoromethane (Surr)	94			80 - 120					
Toluene-d8 (Surr)	102			80 - 120					

Lab Sample ID: 440-3337-1 MSD

Client Sample ID: OC_SP220B_EFF_022112

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 9876

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		25.0	27.3		ug/L		109	65 - 140	2	20
1,1,1-Trichloroethane	ND		25.0	26.1		ug/L		104	65 - 140	1	20
1,1,2,2-Tetrachloroethane	ND		25.0	33.2		ug/L		133	55 - 135	5	30
1,1,2-Trichloroethane	ND		25.0	31.3		ug/L		125	65 - 130	0	25
1,1-Dichloroethane	ND		25.0	31.4		ug/L		126	65 - 130	1	20
1,1-Dichloroethene	ND		25.0	30.9		ug/L		124	60 - 130	7	20
1,1-Dichloropropene	ND		25.0	29.0		ug/L		116	70 - 135	0	20
1,2,3-Trichlorobenzene	ND		25.0	38.8 F		ug/L		155	60 - 135	3	20
1,2,3-Trichloropropane	ND		25.0	30.2		ug/L		121	55 - 135	6	30
1,2,4-Trichlorobenzene	ND		25.0	28.9		ug/L		116	65 - 135	2	20
1,2,4-Trimethylbenzene	ND		25.0	32.5		ug/L		130	55 - 135	2	25
1,2-Dibromo-3-Chloropropane	ND		25.0	29.1		ug/L		116	45 - 145	11	30
1,2-Dichlorobenzene	ND		25.0	31.0		ug/L		124	75 - 125	3	20
1,2-Dibromoethane (EDB)	ND		25.0	30.4		ug/L		122	70 - 130	4	25
1,2-Dichloroethane	ND		25.0	26.4		ug/L		106	60 - 140	0	20
1,2-Dichloropropene	ND		25.0	32.0		ug/L		128	65 - 130	3	20
1,3,5-Trimethylbenzene	ND		25.0	32.8 F		ug/L		131	70 - 130	2	20
1,3-Dichlorobenzene	ND		25.0	30.2		ug/L		121	75 - 125	1	20
1,3-Dichloropropane	ND		25.0	30.4		ug/L		122	65 - 135	5	25
1,4-Dichlorobenzene	ND		25.0	29.7		ug/L		119	75 - 125	1	20
2,2-Dichloropropane	ND		25.0	29.5		ug/L		118	60 - 145	1	25
2-Chlorotoluene	ND		25.0	32.0		ug/L		128	65 - 135	3	20
4-Chlorotoluene	ND		25.0	32.2		ug/L		129	70 - 135	3	20
p-Isopropyltoluene	ND		25.0	31.4		ug/L		126	65 - 130	1	20
Benzene	ND		25.0	30.1		ug/L		120	65 - 125	0	20
Bromobenzene	ND		25.0	31.0		ug/L		124	70 - 125	3	20
Bromoform	ND		25.0	29.4		ug/L		118	65 - 135	4	25
Bromomethane	ND		25.0	27.5		ug/L		110	70 - 135	0	20
Bromodichloromethane	ND		25.0	25.1		ug/L		100	55 - 135	6	25
Bromoform	ND		25.0	30.5		ug/L		122	55 - 145	1	25
Bromomethane	ND		25.0	24.4		ug/L		98	65 - 140	0	25
Carbon tetrachloride	ND		25.0	29.5		ug/L		118	75 - 125	2	20
Chlorobenzene	ND		25.0	30.0		ug/L		120	55 - 140	3	25
Chloroethane	ND		25.0	27.9		ug/L		112	65 - 135	2	20
Chloroform	ND		25.0	25.8		ug/L		103	45 - 145	3	25
Chloromethane	ND		25.0	34.2 F		ug/L		137	65 - 130	2	20
cis-1,2-Dichloroethene	ND		25.0								

QC Sample Results

Client: CDM Smith, Inc.

TestAmerica Job ID: 440-3337-1

Project/Site: Omega Chemical Wastewater

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-3337-1 MSD

Client Sample ID: OC_SP220B_EFF_022112

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 9876

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
cis-1,3-Dichloropropene	ND		25.0	29.9		ug/L	120	70 - 130	2	20	
Dibromochloromethane	ND		25.0	27.6		ug/L	110	65 - 140	3	25	
Dibromomethane	ND		25.0	28.9		ug/L	116	65 - 135	2	25	
Dichlorodifluoromethane	ND		25.0	22.4		ug/L	88	25 - 155	2	30	
Ethylbenzene	ND		25.0	30.5		ug/L	122	65 - 130	3	20	
Hexachlorobutadiene	ND		25.0	25.5		ug/L	102	60 - 135	2	20	
Isopropylbenzene	ND		25.0	30.0		ug/L	120	70 - 135	3	20	
m,p-Xylene	ND		50.0	64.0		ug/L	128	65 - 130	2	25	
Methylene Chloride	ND		25.0	30.4		ug/L	122	50 - 135	1	20	
Methyl-t-Butyl Ether (MTBE)	ND		25.0	31.0		ug/L	124	55 - 145	2	25	
Naphthalene	ND		25.0	31.3		ug/L	125	50 - 140	4	30	
n-Butylbenzene	ND		25.0	33.5		ug/L	134	65 - 135	1	20	
N-Propylbenzene	ND		25.0	33.8		ug/L	135	70 - 135	2	20	
o-Xylene	ND		25.0	32.0 F		ug/L	128	65 - 125	2	20	
sec-Butylbenzene	ND		25.0	33.5 F		ug/L	134	70 - 125	2	20	
Styrene	ND		25.0	30.2		ug/L	121	50 - 145	1	30	
tert-Butylbenzene	ND		25.0	31.9		ug/L	128	65 - 130	1	20	
Tetrachloroethene	ND		25.0	28.1		ug/L	112	65 - 130	1	20	
Toluene	ND		25.0	30.7		ug/L	123	70 - 125	1	20	
trans-1,2-Dichloroethene	ND		25.0	32.8 F		ug/L	131	65 - 130	0	20	
trans-1,3-Dichloropropene	ND		25.0	28.2		ug/L	113	65 - 135	2	25	
Trichloroethene	ND		25.0	28.3		ug/L	113	65 - 125	1	20	
Trichlorofluoromethane	ND		25.0	26.1		ug/L	104	60 - 145	0	25	
Vinyl chloride	ND		25.0	25.0		ug/L	100	45 - 140	1	30	
Acetone	ND		25.0	23.8		ug/L	95	20 - 150	12	35	
Surrogate											
	MSD	MSD									
	%Recovery	Qualifier									
4-Bromofluorobenzene (Surr)	99			80 - 120							
Dibromofluoromethane (Surr)	94			80 - 120							
Toluene-d8 (Surr)	100			80 - 120							

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 440-9633/1-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 10838

Prep Batch: 9633

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,4-Dioxane	ND		0.50	ug/L		02/26/12 16:57	03/02/12 21:58	1
Surrogate								
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac		
	%Recovery	Qualifier						
1,4-Dioxane-d8 (Surr)	67		30 - 120	02/26/12 16:57	03/02/12 21:58	1		

Lab Sample ID: LCS 440-9633/2-A

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 10838

Prep Batch: 9633

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
1,4-Dioxane	2.00	1.35		ug/L	68	35 - 120	

QC Sample Results

Client: CDM Smith, Inc.

TestAmerica Job ID: 440-3337-1

Project/Site: Omega Chemical Wastewater

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 440-9633/2-A

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 10838

Prep Batch: 9633

Surrogate	LCS	LCS	
	%Recovery	Qualifier	Limits
1,4-Dioxane-d8 (Surr)	62		30 - 120

Lab Sample ID: LCSD 440-9633/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 10838

Prep Batch: 9633

Analyte		Spike Added	LCSD	LCSD		%Rec.	RPD
			Result	Qualifier	Unit	D	Limit
1,4-Dioxane		2.00	1.39		ug/L	70	35 - 120
Surrogate	LCSD	LCSD					
1,4-Dioxane-d8 (Surr)	64	%Recovery	Qualifier	Limits			

QC Association Summary

Client: CDM Smith, Inc.
Project/Site: Omega Chemical Wastewater

TestAmerica Job ID: 440-3337-1

GC/MS VOA

Analysis Batch: 9876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-3337-1	OC_SP220B_EFF_022112	Total/NA	Water	8260B	5
440-3337-1 MS	OC_SP220B_EFF_022112	Total/NA	Water	8260B	6
440-3337-1 MSD	OC_SP220B_EFF_022112	Total/NA	Water	8260B	7
440-3337-2	OC_SP210_INF_022112	Total/NA	Water	8260B	8
440-3337-3	OC_TB-022112	Total/NA	Water	8260B	9
440-3337-4 - DL	OC_EW1_SP110_022112	Total/NA	Water	8260B	10
440-3337-5	OC_EW2_SP120_022112	Total/NA	Water	8260B	11
440-3337-6	OC_EW3_SP130_022112	Total/NA	Water	8260B	12
440-3337-7	OC_EW4_SP140_022112	Total/NA	Water	8260B	
440-3337-8	OC_EW5_SP150_022112	Total/NA	Water	8260B	
LCS 440-9876/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-9876/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 10144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-3337-2	OC_SP210_INF_022112	Total/NA	Water	8260B	
440-3337-4	OC_EW1_SP110_022112	Total/NA	Water	8260B	
440-3337-4 MS	OC_EW1_SP110_022112	Total/NA	Water	8260B	
440-3337-4 MSD	OC_EW1_SP110_022112	Total/NA	Water	8260B	
440-3337-5	OC_EW2_SP120_022112	Total/NA	Water	8260B	
LCS 440-10144/4	Lab Control Sample	Total/NA	Water	8260B	
MB 440-10144/3	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 9633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-3337-1	OC_SP220B_EFF_022112	Total/NA	Water	3520C	
440-3337-4	OC_EW1_SP110_022112	Total/NA	Water	3520C	
440-3337-5	OC_EW2_SP120_022112	Total/NA	Water	3520C	
440-3337-6	OC_EW3_SP130_022112	Total/NA	Water	3520C	
440-3337-7	OC_EW4_SP140_022112	Total/NA	Water	3520C	
440-3337-8	OC_EW5_SP150_022112	Total/NA	Water	3520C	
LCS 440-9633/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 440-9633/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 440-9633/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 10838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-3337-1	OC_SP220B_EFF_022112	Total/NA	Water	8270C SIM	9633
440-3337-4	OC_EW1_SP110_022112	Total/NA	Water	8270C SIM	9633
440-3337-5	OC_EW2_SP120_022112	Total/NA	Water	8270C SIM	9633
440-3337-6	OC_EW3_SP130_022112	Total/NA	Water	8270C SIM	9633
440-3337-8	OC_EW5_SP150_022112	Total/NA	Water	8270C SIM	9633
LCS 440-9633/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	9633
LCSD 440-9633/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM	9633
MB 440-9633/1-A	Method Blank	Total/NA	Water	8270C SIM	9633

Analysis Batch: 11465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-3337-7	OC_EW4_SP140_022112	Total/NA	Water	8270C SIM	9633

Definitions/Glossary

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Wastewater

TestAmerica Job ID: 440-3337-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F	RPD of the MS and MSD exceeds the control limits

Glossary

Abbreviation

These commonly used abbreviations may or may not be present in this report.

☒	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Wastewater

TestAmerica Job ID: 440-3337-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Irvine	Arizona	State Program	9	AZ0671
TestAmerica Irvine	California	LA Cty Sanitation Districts	9	10256
TestAmerica Irvine	California	NELAC	9	1108CA
TestAmerica Irvine	California	State Program	9	2706
TestAmerica Irvine	Guam	State Program	9	Cert. No. 10.001r
TestAmerica Irvine	Hawaii	State Program	9	N/A
TestAmerica Irvine	Nevada	State Program	9	CA015312007A
TestAmerica Irvine	New Mexico	State Program	6	N/A
TestAmerica Irvine	Northern Mariana Islands	State Program	9	MP0002
TestAmerica Irvine	Oregon	NELAC	10	4005
TestAmerica Irvine	USDA	Federal		P330-09-00080

Accreditation may not be offered or required for all methods and analytes reported in this package . Please contact your project manager for the laboratory's current list of certified methods and analytes.

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 440-3337-1

Login Number: 3337

List Source: TestAmerica Irvine

List Number: 1

Creator: Van Banh, Vu

Question	Answer	Comment	
Radioactivity either was not measured or, if measured, is at or below background	N/A		1
The cooler's custody seal, if present, is intact.	N/A		2
The cooler or samples do not appear to have been compromised or tampered with.	True		3
Samples were received on ice.	True		4
Cooler Temperature is acceptable.	True	Temp is 11.2, but samples taken the same day.	5
Cooler Temperature is recorded.	True		6
COC is present.	True		7
COC is filled out in ink and legible.	True		8
COC is filled out with all pertinent information.	True		9
Is the Field Sampler's name present on COC?	True		10
There are no discrepancies between the sample IDs on the containers and the COC.	True		11
Samples are received within Holding Time.	True		12
Sample containers have legible labels.	True		
Containers are not broken or leaking.	True		
Sample collection date/times are provided.	True		
Appropriate sample containers are used.	True		
Sample bottles are completely filled.	True		
Sample Preservation Verified.	True		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True		
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True		
Multiphasic samples are not present.	True		
Samples do not require splitting or compositing.	True		
Residual Chlorine Checked.	N/A		

Appendix B.1.3

March 28, 2012

Water Analytical Results

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Irvine

17461 Derian Ave

Suite 100

Irvine, CA 92614-5817

Tel: (949)261-1022

TestAmerica Job ID: 440-7065-1

Client Project/Site: Omega Chemical Groundwater

For:

CDM Smith, Inc.

111 Academy, Ste 150

Irvine, California 92617

Attn: Sharon Wallin



Authorized for release by:

4/17/2012 1:35:08 PM

Patty Mata

Project Manager I

patty.mata@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Groundwater

TestAmerica Job ID: 440-7065-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-7065-1	OC_SP220B_EFF_032812	Water	03/28/12 15:50	03/30/12 18:25
440-7065-2	OC_SP210_INF_032812	Water	03/28/12 15:52	03/30/12 18:25
440-7065-3	OC_TB_032812	Water	03/28/12 10:00	03/30/12 18:25

Case Narrative

Client: CDM Smith, Inc.
Project/Site: Omega Chemical Groundwater

TestAmerica Job ID: 440-7065-1

Job ID: 440-7065-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative 440-7065-1

Comment

No additional comments.

Receipt

The samples were received on 3/30/2012 6:25 PM; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 2.9 C.

GC/MS VOA

No analytical or quality issues were noted.

GC/MS Semi VOA

No analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

VOA Prep

No analytical or quality issues were noted.

Client Sample Results

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Groundwater

TestAmerica Job ID: 440-7065-1

Client Sample ID: OC_SP220B_EFF_032812

Lab Sample ID: 440-7065-1

Matrix: Water

Date Collected: 03/28/12 15:50

Date Received: 03/30/12 18:25

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			04/11/12 00:34	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			04/11/12 00:34	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			04/11/12 00:34	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			04/11/12 00:34	1
1,1-Dichloroethane	ND		1.0	0.40	ug/L			04/11/12 00:34	1
1,1-Dichloroethene	ND		1.0	0.42	ug/L			04/11/12 00:34	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			04/11/12 00:34	1
1,2,3-Trichlorobenzene	ND		1.0	0.30	ug/L			04/11/12 00:34	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			04/11/12 00:34	1
1,2,4-Trichlorobenzene	ND		1.0	0.48	ug/L			04/11/12 00:34	1
1,2,4-Trimethylbenzene	ND		1.0	0.23	ug/L			04/11/12 00:34	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.97	ug/L			04/11/12 00:34	1
1,2-Dichlorobenzene	ND		1.0	0.32	ug/L			04/11/12 00:34	1
1,2-Dibromoethane (EDB)	ND		1.0	0.40	ug/L			04/11/12 00:34	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/11/12 00:34	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			04/11/12 00:34	1
1,3,5-Trimethylbenzene	ND		1.0	0.26	ug/L			04/11/12 00:34	1
1,3-Dichlorobenzene	ND		1.0	0.35	ug/L			04/11/12 00:34	1
1,3-Dichloropropane	ND		1.0	0.32	ug/L			04/11/12 00:34	1
1,4-Dichlorobenzene	ND		1.0	0.37	ug/L			04/11/12 00:34	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			04/11/12 00:34	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			04/11/12 00:34	1
4-Chlorotoluene	ND		1.0	0.29	ug/L			04/11/12 00:34	1
p-Isopropyltoluene	ND		1.0	0.28	ug/L			04/11/12 00:34	1
Benzene	ND		0.50	0.28	ug/L			04/11/12 00:34	1
Bromobenzene	ND		1.0	0.27	ug/L			04/11/12 00:34	1
Bromochloromethane	ND		1.0	0.40	ug/L			04/11/12 00:34	1
Bromodichloromethane	ND		1.0	0.30	ug/L			04/11/12 00:34	1
Bromoform	ND		1.0	0.40	ug/L			04/11/12 00:34	1
Bromomethane	ND		1.0	0.42	ug/L			04/11/12 00:34	1
Carbon tetrachloride	ND		0.50	0.28	ug/L			04/11/12 00:34	1
Chlorobenzene	ND		1.0	0.36	ug/L			04/11/12 00:34	1
Chloroethane	ND		1.0	0.40	ug/L			04/11/12 00:34	1
Chloroform	ND		1.0	0.33	ug/L			04/11/12 00:34	1
Chloromethane	ND		1.0	0.40	ug/L			04/11/12 00:34	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			04/11/12 00:34	1
cis-1,3-Dichloropropene	ND		0.50	0.22	ug/L			04/11/12 00:34	1
Dibromochloromethane	ND		1.0	0.40	ug/L			04/11/12 00:34	1
Dibromomethane	ND		1.0	0.36	ug/L			04/11/12 00:34	1
Dichlorodifluoromethane	ND		1.0	0.26	ug/L			04/11/12 00:34	1
Ethylbenzene	ND		1.0	0.25	ug/L			04/11/12 00:34	1
Hexachlorobutadiene	ND		1.0	0.38	ug/L			04/11/12 00:34	1
Isopropylbenzene	ND		1.0	0.25	ug/L			04/11/12 00:34	1
m,p-Xylene	ND		1.0	0.60	ug/L			04/11/12 00:34	1
Methylene Chloride	ND		5.0	0.95	ug/L			04/11/12 00:34	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.32	ug/L			04/11/12 00:34	1
Naphthalene	ND		1.0	0.41	ug/L			04/11/12 00:34	1
n-Butylbenzene	ND		1.0	0.37	ug/L			04/11/12 00:34	1
N-Propylbenzene	ND		1.0	0.27	ug/L			04/11/12 00:34	1
o-Xylene	ND		1.0	0.30	ug/L			04/11/12 00:34	1
sec-Butylbenzene	ND		1.0	0.25	ug/L			04/11/12 00:34	1

Client Sample Results

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Groundwater

TestAmerica Job ID: 440-7065-1

Client Sample ID: OC_SP220B_EFF_032812

Lab Sample ID: 440-7065-1

Date Collected: 03/28/12 15:50

Matrix: Water

Date Received: 03/30/12 18:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0	0.20	ug/L			04/11/12 00:34	1
tert-Butylbenzene	ND		1.0	0.22	ug/L			04/11/12 00:34	1
Tetrachloroethene	ND		1.0	0.32	ug/L			04/11/12 00:34	1
Toluene	ND		1.0	0.36	ug/L			04/11/12 00:34	1
trans-1,2-Dichloroethene	ND		1.0	0.30	ug/L			04/11/12 00:34	1
trans-1,3-Dichloropropene	ND		0.50	0.32	ug/L			04/11/12 00:34	1
Trichloroethylene	ND		1.0	0.26	ug/L			04/11/12 00:34	1
Trichlorofluoromethane	ND		1.0	0.34	ug/L			04/11/12 00:34	1
Vinyl chloride	ND		0.50	0.40	ug/L			04/11/12 00:34	1
Acetone	ND		10	4.5	ug/L			04/11/12 00:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	0.50	ug/L			04/11/12 00:34	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		110		80 - 120				04/11/12 00:34	1
Dibromofluoromethane (Surr)		113		80 - 120				04/11/12 00:34	1
Toluene-d8 (Surr)		100		80 - 120				04/11/12 00:34	1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	44		4.8	0.57	ug/L		04/03/12 17:59	04/11/12 02:03	10
Surrogate									
1,4-Dioxane-d8 (Surr)									

Client Sample ID: OC_SP210_INF_032812

Lab Sample ID: 440-7065-2

Date Collected: 03/28/12 15:52

Matrix: Water

Date Received: 03/30/12 18:25

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		10	2.7	ug/L			04/11/12 01:00	10
1,1,1-Trichloroethane	ND		10	3.0	ug/L			04/11/12 01:00	10
1,1,2,2-Tetrachloroethane	ND		10	3.0	ug/L			04/11/12 01:00	10
1,1,2-Trichloroethane	ND		10	3.0	ug/L			04/11/12 01:00	10
1,1-Dichloroethane	ND		10	4.0	ug/L			04/11/12 01:00	10
1,1-Dichloroethene	150		10	4.2	ug/L			04/11/12 01:00	10
1,1-Dichloropropene	ND		10	2.8	ug/L			04/11/12 01:00	10
1,2,3-Trichlorobenzene	ND		10	3.0	ug/L			04/11/12 01:00	10
1,2,3-Trichloropropane	ND		10	4.0	ug/L			04/11/12 01:00	10
1,2,4-Trichlorobenzene	ND		10	4.8	ug/L			04/11/12 01:00	10
1,2,4-Trimethylbenzene	ND		10	2.3	ug/L			04/11/12 01:00	10
1,2-Dibromo-3-Chloropropane	ND		50	9.7	ug/L			04/11/12 01:00	10
1,2-Dichlorobenzene	ND		10	3.2	ug/L			04/11/12 01:00	10
1,2-Dibromoethane (EDB)	ND		10	4.0	ug/L			04/11/12 01:00	10
1,2-Dichloroethane	12		10	2.8	ug/L			04/11/12 01:00	10
1,2-Dichloropropane	ND		10	3.5	ug/L			04/11/12 01:00	10
1,3,5-Trimethylbenzene	ND		10	2.6	ug/L			04/11/12 01:00	10
1,3-Dichlorobenzene	ND		10	3.5	ug/L			04/11/12 01:00	10
1,3-Dichloropropane	ND		10	3.2	ug/L			04/11/12 01:00	10
1,4-Dichlorobenzene	ND		10	3.7	ug/L			04/11/12 01:00	10
2,2-Dichloropropane	ND		10	3.4	ug/L			04/11/12 01:00	10
2-Chlorotoluene	ND		10	2.8	ug/L			04/11/12 01:00	10

Client Sample Results

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Groundwater

TestAmerica Job ID: 440-7065-1

Client Sample ID: OC_SP210_INF_032812

Lab Sample ID: 440-7065-2

Matrix: Water

Date Collected: 03/28/12 15:52

Date Received: 03/30/12 18:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		10	2.9	ug/L			04/11/12 01:00	10
p-Isopropyltoluene	ND		10	2.8	ug/L			04/11/12 01:00	10
Benzene	ND		5.0	2.8	ug/L			04/11/12 01:00	10
Bromobenzene	ND		10	2.7	ug/L			04/11/12 01:00	10
Bromoform	ND		10	4.0	ug/L			04/11/12 01:00	10
Bromochloromethane	ND		10	3.0	ug/L			04/11/12 01:00	10
Bromodichloromethane	ND		10	4.0	ug/L			04/11/12 01:00	10
Bromoform	ND		10	4.0	ug/L			04/11/12 01:00	10
Bromomethane	ND		10	4.2	ug/L			04/11/12 01:00	10
Carbon tetrachloride	ND		5.0	2.8	ug/L			04/11/12 01:00	10
Chlorobenzene	ND		10	3.6	ug/L			04/11/12 01:00	10
Chloroethane	ND		10	4.0	ug/L			04/11/12 01:00	10
Chloroform	76		10	3.3	ug/L			04/11/12 01:00	10
Chloromethane	ND		10	4.0	ug/L			04/11/12 01:00	10
cis-1,2-Dichloroethene	ND		10	3.2	ug/L			04/11/12 01:00	10
cis-1,3-Dichloropropene	ND		5.0	2.2	ug/L			04/11/12 01:00	10
Dibromochloromethane	ND		10	4.0	ug/L			04/11/12 01:00	10
Dibromomethane	ND		10	3.6	ug/L			04/11/12 01:00	10
Dichlorodifluoromethane	ND		10	2.6	ug/L			04/11/12 01:00	10
Ethylbenzene	ND		10	2.5	ug/L			04/11/12 01:00	10
Hexachlorobutadiene	ND		10	3.8	ug/L			04/11/12 01:00	10
Isopropylbenzene	ND		10	2.5	ug/L			04/11/12 01:00	10
m,p-Xylene	ND		10	6.0	ug/L			04/11/12 01:00	10
Methylene Chloride	ND		50	9.5	ug/L			04/11/12 01:00	10
Methyl-t-Butyl Ether (MTBE)	ND		10	3.2	ug/L			04/11/12 01:00	10
Naphthalene	ND		10	4.1	ug/L			04/11/12 01:00	10
n-Butylbenzene	ND		10	3.7	ug/L			04/11/12 01:00	10
N-Propylbenzene	ND		10	2.7	ug/L			04/11/12 01:00	10
o-Xylene	ND		10	3.0	ug/L			04/11/12 01:00	10
sec-Butylbenzene	ND		10	2.5	ug/L			04/11/12 01:00	10
Styrene	ND		10	2.0	ug/L			04/11/12 01:00	10
tert-Butylbenzene	ND		10	2.2	ug/L			04/11/12 01:00	10
Tetrachloroethene	2300		10	3.2	ug/L			04/11/12 01:00	10
Toluene	ND		10	3.6	ug/L			04/11/12 01:00	10
trans-1,2-Dichloroethene	ND		10	3.0	ug/L			04/11/12 01:00	10
trans-1,3-Dichloropropene	ND		5.0	3.2	ug/L			04/11/12 01:00	10
Trichloroethene	97		10	2.6	ug/L			04/11/12 01:00	10
Trichlorofluoromethane	70		10	3.4	ug/L			04/11/12 01:00	10
Vinyl chloride	ND		5.0	4.0	ug/L			04/11/12 01:00	10
Acetone	ND		100	45	ug/L			04/11/12 01:00	10
1,1,2-Trichloro-1,2,2-trifluoroethane	170		50	5.0	ug/L			04/11/12 01:00	10
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108			80 - 120				04/11/12 01:00	10
Dibromofluoromethane (Surr)	110			80 - 120				04/11/12 01:00	10
Toluene-d8 (Surr)	107			80 - 120				04/11/12 01:00	10

Client Sample Results

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Groundwater

TestAmerica Job ID: 440-7065-1

Client Sample ID: OC_TB_032812

Lab Sample ID: 440-7065-3

Date Collected: 03/28/12 10:00

Matrix: Water

Date Received: 03/30/12 18:25

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L		04/11/12 01:27		1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L		04/11/12 01:27		1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L		04/11/12 01:27		1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L		04/11/12 01:27		1
1,1-Dichloroethane	ND		1.0	0.40	ug/L		04/11/12 01:27		1
1,1-Dichloroethene	ND		1.0	0.42	ug/L		04/11/12 01:27		1
1,1-Dichloropropene	ND		1.0	0.28	ug/L		04/11/12 01:27		1
1,2,3-Trichlorobenzene	ND		1.0	0.30	ug/L		04/11/12 01:27		1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L		04/11/12 01:27		1
1,2,4-Trichlorobenzene	ND		1.0	0.48	ug/L		04/11/12 01:27		1
1,2,4-Trimethylbenzene	ND		1.0	0.23	ug/L		04/11/12 01:27		1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.97	ug/L		04/11/12 01:27		1
1,2-Dichlorobenzene	ND		1.0	0.32	ug/L		04/11/12 01:27		1
1,2-Dibromoethane (EDB)	ND		1.0	0.40	ug/L		04/11/12 01:27		1
1,2-Dichloroethane	ND		1.0	0.28	ug/L		04/11/12 01:27		1
1,2-Dichloropropene	ND		1.0	0.35	ug/L		04/11/12 01:27		1
1,3,5-Trimethylbenzene	ND		1.0	0.26	ug/L		04/11/12 01:27		1
1,3-Dichlorobenzene	ND		1.0	0.35	ug/L		04/11/12 01:27		1
1,3-Dichloropropane	ND		1.0	0.32	ug/L		04/11/12 01:27		1
1,4-Dichlorobenzene	ND		1.0	0.37	ug/L		04/11/12 01:27		1
2,2-Dichloropropane	ND		1.0	0.34	ug/L		04/11/12 01:27		1
2-Chlorotoluene	ND		1.0	0.28	ug/L		04/11/12 01:27		1
4-Chlorotoluene	ND		1.0	0.29	ug/L		04/11/12 01:27		1
p-Isopropyltoluene	ND		1.0	0.28	ug/L		04/11/12 01:27		1
Benzene	ND		0.50	0.28	ug/L		04/11/12 01:27		1
Bromobenzene	ND		1.0	0.27	ug/L		04/11/12 01:27		1
Bromochloromethane	ND		1.0	0.40	ug/L		04/11/12 01:27		1
Bromodichloromethane	ND		1.0	0.30	ug/L		04/11/12 01:27		1
Bromoform	ND		1.0	0.40	ug/L		04/11/12 01:27		1
Bromomethane	ND		1.0	0.42	ug/L		04/11/12 01:27		1
Carbon tetrachloride	ND		0.50	0.28	ug/L		04/11/12 01:27		1
Chlorobenzene	ND		1.0	0.36	ug/L		04/11/12 01:27		1
Chloroethane	ND		1.0	0.40	ug/L		04/11/12 01:27		1
Chloroform	ND		1.0	0.33	ug/L		04/11/12 01:27		1
Chloromethane	ND		1.0	0.40	ug/L		04/11/12 01:27		1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L		04/11/12 01:27		1
cis-1,3-Dichloropropene	ND		0.50	0.22	ug/L		04/11/12 01:27		1
Dibromochloromethane	ND		1.0	0.40	ug/L		04/11/12 01:27		1
Dibromomethane	ND		1.0	0.36	ug/L		04/11/12 01:27		1
Dichlorodifluoromethane	ND		1.0	0.26	ug/L		04/11/12 01:27		1
Ethylbenzene	ND		1.0	0.25	ug/L		04/11/12 01:27		1
Hexachlorobutadiene	ND		1.0	0.38	ug/L		04/11/12 01:27		1
Isopropylbenzene	ND		1.0	0.25	ug/L		04/11/12 01:27		1
m,p-Xylene	ND		1.0	0.60	ug/L		04/11/12 01:27		1
Methylene Chloride	ND		5.0	0.95	ug/L		04/11/12 01:27		1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.32	ug/L		04/11/12 01:27		1
Naphthalene	ND		1.0	0.41	ug/L		04/11/12 01:27		1
n-Butylbenzene	ND		1.0	0.37	ug/L		04/11/12 01:27		1
N-Propylbenzene	ND		1.0	0.27	ug/L		04/11/12 01:27		1
o-Xylene	ND		1.0	0.30	ug/L		04/11/12 01:27		1
sec-Butylbenzene	ND		1.0	0.25	ug/L		04/11/12 01:27		1

Client Sample Results

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Groundwater

TestAmerica Job ID: 440-7065-1

Client Sample ID: OC_TB_032812

Lab Sample ID: 440-7065-3

Date Collected: 03/28/12 10:00

Matrix: Water

Date Received: 03/30/12 18:25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0	0.20	ug/L		04/11/12 01:27		1
tert-Butylbenzene	ND		1.0	0.22	ug/L		04/11/12 01:27		1
Tetrachloroethene	ND		1.0	0.32	ug/L		04/11/12 01:27		1
Toluene	ND		1.0	0.36	ug/L		04/11/12 01:27		1
trans-1,2-Dichloroethene	ND		1.0	0.30	ug/L		04/11/12 01:27		1
trans-1,3-Dichloropropene	ND		0.50	0.32	ug/L		04/11/12 01:27		1
Trichloroethene	ND		1.0	0.26	ug/L		04/11/12 01:27		1
Trichlorofluoromethane	ND		1.0	0.34	ug/L		04/11/12 01:27		1
Vinyl chloride	ND		0.50	0.40	ug/L		04/11/12 01:27		1
Acetone	ND		10	4.5	ug/L		04/11/12 01:27		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	0.50	ug/L		04/11/12 01:27		1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		109		80 - 120			04/11/12 01:27		1
Dibromofluoromethane (Surr)		114		80 - 120			04/11/12 01:27		1
Toluene-d8 (Surr)		103		80 - 120			04/11/12 01:27		1

Lab Chronicle

Client: CDM Smith, Inc.

TestAmerica Job ID: 440-7065-1

Project/Site: Omega Chemical Groundwater

Client Sample ID: OC_SP220B_EFF_032812

Lab Sample ID: 440-7065-1

Matrix: Water

Date Collected: 03/28/12 15:50

Date Received: 03/30/12 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	18760	04/11/12 00:34	RM	TAL IRV
Total/NA	Prep	3520C			1050 mL	1 mL	17241	04/03/12 17:59	DM	TAL IRV
Total/NA	Analysis	8270C SIM		10			18732	04/11/12 02:03	AI	TAL IRV

Client Sample ID: OC_SP210_INF_032812

Lab Sample ID: 440-7065-2

Matrix: Water

Date Collected: 03/28/12 15:52

Date Received: 03/30/12 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	10 mL	10 mL	18760	04/11/12 01:00	RM	TAL IRV

Client Sample ID: OC_TB_032812

Lab Sample ID: 440-7065-3

Matrix: Water

Date Collected: 03/28/12 10:00

Date Received: 03/30/12 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	18760	04/11/12 01:27	RM	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

QC Sample Results

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Groundwater

TestAmerica Job ID: 440-7065-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-18760/5

Matrix: Water

Analysis Batch: 18760

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			04/10/12 19:48	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			04/10/12 19:48	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			04/10/12 19:48	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			04/10/12 19:48	1
1,1-Dichloroethane	ND		1.0	0.40	ug/L			04/10/12 19:48	1
1,1-Dichloroethene	ND		1.0	0.42	ug/L			04/10/12 19:48	1
1,1-Dichloropropene	ND		1.0	0.28	ug/L			04/10/12 19:48	1
1,2,3-Trichlorobenzene	ND		1.0	0.30	ug/L			04/10/12 19:48	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			04/10/12 19:48	1
1,2,4-Trichlorobenzene	ND		1.0	0.48	ug/L			04/10/12 19:48	1
1,2,4-Trimethylbenzene	ND		1.0	0.23	ug/L			04/10/12 19:48	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.97	ug/L			04/10/12 19:48	1
1,2-Dichlorobenzene	ND		1.0	0.32	ug/L			04/10/12 19:48	1
1,2-Dibromoethane (EDB)	ND		1.0	0.40	ug/L			04/10/12 19:48	1
1,2-Dichloroethane	ND		1.0	0.28	ug/L			04/10/12 19:48	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			04/10/12 19:48	1
1,3,5-Trimethylbenzene	ND		1.0	0.26	ug/L			04/10/12 19:48	1
1,3-Dichlorobenzene	ND		1.0	0.35	ug/L			04/10/12 19:48	1
1,3-Dichloropropane	ND		1.0	0.32	ug/L			04/10/12 19:48	1
1,4-Dichlorobenzene	ND		1.0	0.37	ug/L			04/10/12 19:48	1
2,2-Dichloropropane	ND		1.0	0.34	ug/L			04/10/12 19:48	1
2-Chlorotoluene	ND		1.0	0.28	ug/L			04/10/12 19:48	1
4-Chlorotoluene	ND		1.0	0.29	ug/L			04/10/12 19:48	1
p-Isopropyltoluene	ND		1.0	0.28	ug/L			04/10/12 19:48	1
Benzene	ND		0.50	0.28	ug/L			04/10/12 19:48	1
Bromobenzene	ND		1.0	0.27	ug/L			04/10/12 19:48	1
Bromoform	ND		1.0	0.40	ug/L			04/10/12 19:48	1
Bromomethane	ND		1.0	0.42	ug/L			04/10/12 19:48	1
Bromodichloromethane	ND		1.0	0.30	ug/L			04/10/12 19:48	1
Bromoform	ND		1.0	0.40	ug/L			04/10/12 19:48	1
Carbon tetrachloride	ND		0.50	0.28	ug/L			04/10/12 19:48	1
Chlorobenzene	ND		1.0	0.36	ug/L			04/10/12 19:48	1
Chloroethane	ND		1.0	0.40	ug/L			04/10/12 19:48	1
Chloroform	ND		1.0	0.33	ug/L			04/10/12 19:48	1
Chloromethane	ND		1.0	0.40	ug/L			04/10/12 19:48	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			04/10/12 19:48	1
cis-1,3-Dichloropropene	ND		0.50	0.22	ug/L			04/10/12 19:48	1
Dibromochloromethane	ND		1.0	0.40	ug/L			04/10/12 19:48	1
Dibromomethane	ND		1.0	0.36	ug/L			04/10/12 19:48	1
Dichlorodifluoromethane	ND		1.0	0.26	ug/L			04/10/12 19:48	1
Ethylbenzene	ND		1.0	0.25	ug/L			04/10/12 19:48	1
Hexachlorobutadiene	ND		1.0	0.38	ug/L			04/10/12 19:48	1
Isopropylbenzene	ND		1.0	0.25	ug/L			04/10/12 19:48	1
m,p-Xylene	ND		1.0	0.60	ug/L			04/10/12 19:48	1
Methylene Chloride	ND		5.0	0.95	ug/L			04/10/12 19:48	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.32	ug/L			04/10/12 19:48	1
Naphthalene	ND		1.0	0.41	ug/L			04/10/12 19:48	1
n-Butylbenzene	ND		1.0	0.37	ug/L			04/10/12 19:48	1
N-Propylbenzene	ND		1.0	0.27	ug/L			04/10/12 19:48	1

QC Sample Results

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Groundwater

TestAmerica Job ID: 440-7065-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-18760/5

Matrix: Water

Analysis Batch: 18760

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
o-Xylene	ND		1.0	0.30	ug/L			04/10/12 19:48	1
sec-Butylbenzene	ND		1.0	0.25	ug/L			04/10/12 19:48	1
Styrene	ND		1.0	0.20	ug/L			04/10/12 19:48	1
tert-Butylbenzene	ND		1.0	0.22	ug/L			04/10/12 19:48	1
Tetrachloroethene	ND		1.0	0.32	ug/L			04/10/12 19:48	1
Toluene	ND		1.0	0.36	ug/L			04/10/12 19:48	1
trans-1,2-Dichloroethene	ND		1.0	0.30	ug/L			04/10/12 19:48	1
trans-1,3-Dichloropropene	ND		0.50	0.32	ug/L			04/10/12 19:48	1
Trichloroethene	ND		1.0	0.26	ug/L			04/10/12 19:48	1
Trichlorofluoromethane	ND		1.0	0.34	ug/L			04/10/12 19:48	1
Vinyl chloride	ND		0.50	0.40	ug/L			04/10/12 19:48	1
Acetone	ND		10	4.5	ug/L			04/10/12 19:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	0.50	ug/L			04/10/12 19:48	1

MB MB

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	105		80 - 120		04/10/12 19:48	1
Dibromofluoromethane (Surr)	108		80 - 120		04/10/12 19:48	1
Toluene-d8 (Surr)	101		80 - 120		04/10/12 19:48	1

Lab Sample ID: LCS 440-18760/4

Matrix: Water

Analysis Batch: 18760

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike		LCS		Unit	D	%Rec	Limits	%Rec.
	Added	Result	Qualifier	Unit					
1,1,1,2-Tetrachloroethane	25.0	24.6		ug/L			98	70 - 130	
1,1,1-Trichloroethane	25.0	27.6		ug/L			110	65 - 135	
1,1,2,2-Tetrachloroethane	25.0	23.7		ug/L			95	55 - 130	
1,1,2-Trichloroethane	25.0	23.6		ug/L			94	70 - 125	
1,1-Dichloroethane	25.0	27.1		ug/L			108	70 - 125	
1,1-Dichloroethene	25.0	23.5		ug/L			94	70 - 125	
1,1-Dichloropropene	25.0	23.9		ug/L			96	75 - 130	
1,2,3-Trichlorobenzene	25.0	21.2		ug/L			85	65 - 125	
1,2,3-Trichloropropane	25.0	23.7		ug/L			95	60 - 130	
1,2,4-Trichlorobenzene	25.0	21.8		ug/L			87	70 - 135	
1,2,4-Trimethylbenzene	25.0	24.5		ug/L			98	75 - 125	
1,2-Dibromo-3-Chloropropane	25.0	22.4		ug/L			90	50 - 135	
1,2-Dichlorobenzene	25.0	23.0		ug/L			92	75 - 120	
1,2-Dibromoethane (EDB)	25.0	25.5		ug/L			102	75 - 125	
1,2-Dichloroethane	25.0	26.5		ug/L			106	60 - 140	
1,2-Dichloropropene	25.0	23.6		ug/L			94	70 - 125	
1,3,5-Trimethylbenzene	25.0	23.9		ug/L			96	75 - 125	
1,3-Dichlorobenzene	25.0	23.5		ug/L			94	75 - 120	
1,3-Dichloropropane	25.0	24.3		ug/L			97	70 - 120	
1,4-Dichlorobenzene	25.0	23.6		ug/L			94	75 - 120	
2,2-Dichloropropane	25.0	28.2		ug/L			113	65 - 140	
2-Chlorotoluene	25.0	23.6		ug/L			94	70 - 125	
4-Chlorotoluene	25.0	23.9		ug/L			96	75 - 125	
p-Isopropyltoluene	25.0	22.3		ug/L			89	75 - 125	
Benzene	25.0	21.5		ug/L			86	70 - 120	

QC Sample Results

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Groundwater

TestAmerica Job ID: 440-7065-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-18760/4

Matrix: Water

Analysis Batch: 18760

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike		LCS		Unit	D	%Rec	%Rec.
	Added	Result	LCS	Qualifier				
Bromobenzene	25.0	23.3			ug/L		93	75 - 120
Bromochloromethane	25.0	24.9			ug/L		100	70 - 130
Bromodichloromethane	25.0	26.9			ug/L		108	70 - 135
Bromoform	25.0	26.5			ug/L		106	55 - 130
Bromomethane	25.0	27.3			ug/L		109	65 - 140
Carbon tetrachloride	25.0	25.6			ug/L		102	65 - 140
Chlorobenzene	25.0	23.5			ug/L		94	75 - 120
Chloroethane	25.0	25.2			ug/L		101	60 - 140
Chloroform	25.0	26.8			ug/L		107	70 - 130
Chloromethane	25.0	22.4			ug/L		90	50 - 140
cis-1,2-Dichloroethene	25.0	25.8			ug/L		103	70 - 125
cis-1,3-Dichloropropene	25.0	24.1			ug/L		96	75 - 125
Dibromochloromethane	25.0	26.2			ug/L		105	70 - 140
Dibromomethane	25.0	25.6			ug/L		102	70 - 125
Dichlorodifluoromethane	25.0	20.6			ug/L		82	35 - 155
Ethylbenzene	25.0	22.8			ug/L		91	75 - 125
Hexachlorobutadiene	25.0	20.9			ug/L		84	65 - 135
Isopropylbenzene	25.0	20.7			ug/L		83	75 - 130
m,p-Xylene	50.0	46.1			ug/L		92	75 - 125
Methylene Chloride	25.0	24.8			ug/L		99	55 - 130
Methyl-t-Butyl Ether (MTBE)	25.0	28.6			ug/L		114	60 - 135
Naphthalene	25.0	20.1			ug/L		80	55 - 135
n-Butylbenzene	25.0	22.8			ug/L		91	70 - 130
N-Propylbenzene	25.0	22.9			ug/L		92	75 - 130
o-Xylene	25.0	23.3			ug/L		93	75 - 125
sec-Butylbenzene	25.0	22.6			ug/L		90	70 - 125
Styrene	25.0	23.8			ug/L		95	75 - 130
tert-Butylbenzene	25.0	21.3			ug/L		85	70 - 125
Tetrachloroethene	25.0	24.1			ug/L		96	70 - 125
Toluene	25.0	21.4			ug/L		86	70 - 120
trans-1,2-Dichloroethene	25.0	25.3			ug/L		101	70 - 125
trans-1,3-Dichloropropene	25.0	26.3			ug/L		105	70 - 125
Trichloroethene	25.0	24.1			ug/L		96	70 - 125
Trichlorofluoromethane	25.0	30.7			ug/L		123	65 - 145
Vinyl chloride	25.0	24.0			ug/L		96	55 - 135
Acetone	25.0	23.6			ug/L		94	30 - 140

Surrogate	LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	114		80 - 120
Dibromofluoromethane (Surr)	108		80 - 120
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: 440-6969-F-1 MS

Matrix: Water

Analysis Batch: 18760

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
1,1,1,2-Tetrachloroethane	ND		25.0	24.0		ug/L		96	65 - 140
1,1,1-Trichloroethane	ND		25.0	26.0		ug/L		104	65 - 140

QC Sample Results

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Groundwater

TestAmerica Job ID: 440-7065-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-6969-F-1 MS

Matrix: Water

Analysis Batch: 18760

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
1,1,2,2-Tetrachloroethane	ND		25.0	22.3		ug/L		89	55 - 135
1,1,2-Trichloroethane	ND		25.0	23.4		ug/L		94	65 - 130
1,1-Dichloroethane	ND		25.0	24.4		ug/L		98	65 - 130
1,1-Dichloroethene	ND		25.0	22.6		ug/L		90	60 - 130
1,1-Dichloropropene	ND		25.0	23.7		ug/L		95	70 - 135
1,2,3-Trichlorobenzene	ND		25.0	18.9		ug/L		76	60 - 135
1,2,3-Trichloropropane	ND		25.0	22.4		ug/L		90	55 - 135
1,2,4-Trichlorobenzene	ND		25.0	21.2		ug/L		85	65 - 135
1,2,4-Trimethylbenzene	ND		25.0	23.1		ug/L		92	55 - 135
1,2-Dibromo-3-Chloropropane	ND		25.0	20.6		ug/L		82	45 - 145
1,2-Dichlorobenzene	ND		25.0	22.0		ug/L		88	75 - 125
1,2-Dibromoethane (EDB)	ND		25.0	23.7		ug/L		95	70 - 130
1,2-Dichloroethane	ND		25.0	26.9		ug/L		108	60 - 140
1,2-Dichloropropene	ND		25.0	23.9		ug/L		96	65 - 130
1,3,5-Trimethylbenzene	ND		25.0	23.4		ug/L		94	70 - 130
1,3-Dichlorobenzene	ND		25.0	22.5		ug/L		90	75 - 125
1,3-Dichloropropene	ND		25.0	24.1		ug/L		96	65 - 135
1,4-Dichlorobenzene	ND		25.0	22.8		ug/L		91	75 - 125
2,2-Dichloropropene	ND		25.0	29.0		ug/L		116	60 - 145
2-Chlorotoluene	ND		25.0	23.0		ug/L		92	65 - 135
4-Chlorotoluene	ND		25.0	24.1		ug/L		96	70 - 135
p-Isopropyltoluene	ND		25.0	22.5		ug/L		90	65 - 130
Benzene	ND		25.0	21.4		ug/L		86	65 - 125
Bromobenzene	ND		25.0	22.2		ug/L		89	70 - 125
Bromochloromethane	ND		25.0	22.7		ug/L		91	65 - 135
Bromodichloromethane	ND		25.0	26.1		ug/L		104	70 - 135
Bromoform	ND		25.0	24.9		ug/L		100	55 - 135
Bromomethane	ND		25.0	25.5		ug/L		102	55 - 145
Carbon tetrachloride	ND		25.0	25.8		ug/L		103	65 - 140
Chlorobenzene	ND		25.0	22.8		ug/L		91	75 - 125
Chloroethane	ND		25.0	23.5		ug/L		94	55 - 140
Chloroform	ND		25.0	25.4		ug/L		102	65 - 135
Chloromethane	ND		25.0	20.8		ug/L		83	45 - 145
cis-1,2-Dichloroethene	ND		25.0	24.9		ug/L		100	65 - 130
cis-1,3-Dichloropropene	ND		25.0	23.3		ug/L		93	70 - 130
Dibromochloromethane	ND		25.0	25.0		ug/L		100	65 - 140
Dibromomethane	ND		25.0	24.9		ug/L		100	65 - 135
Dichlorodifluoromethane	ND		25.0	19.6		ug/L		78	25 - 155
Ethylbenzene	ND		25.0	22.1		ug/L		88	65 - 130
Hexachlorobutadiene	ND		25.0	22.0		ug/L		88	60 - 135
Isopropylbenzene	ND		25.0	20.3		ug/L		81	70 - 135
m,p-Xylene	ND		50.0	44.5		ug/L		89	65 - 130
Methylene Chloride	ND		25.0	22.6		ug/L		90	50 - 135
Methyl-t-Butyl Ether (MTBE)	ND		25.0	25.6		ug/L		102	55 - 145
Naphthalene	ND		25.0	18.3		ug/L		73	50 - 140
n-Butylbenzene	ND		25.0	23.7		ug/L		95	65 - 135
N-Propylbenzene	ND		25.0	22.2		ug/L		89	70 - 135
o-Xylene	ND		25.0	22.3		ug/L		89	65 - 125
sec-Butylbenzene	ND		25.0	22.3		ug/L		89	70 - 125
Styrene	ND		25.0	21.9		ug/L		88	50 - 145

QC Sample Results

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Groundwater

TestAmerica Job ID: 440-7065-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-6969-F-1 MS

Matrix: Water

Analysis Batch: 18760

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
tert-Butylbenzene	ND		25.0	22.3		ug/L		89	65 - 130
Tetrachloroethene	ND		25.0	23.0		ug/L		92	65 - 130
Toluene	ND		25.0	20.8		ug/L		83	70 - 125
trans-1,2-Dichloroethene	ND		25.0	22.8		ug/L		91	65 - 130
trans-1,3-Dichloropropene	ND		25.0	25.7		ug/L		103	65 - 135
Trichloroethene	ND		25.0	23.2		ug/L		93	65 - 125
Trichlorofluoromethane	ND		25.0	29.6		ug/L		118	60 - 145
Vinyl chloride	ND		25.0	24.2		ug/L		97	45 - 140
Acetone	ND		25.0	26.3		ug/L		105	20 - 150
MS MS									
Surrogate	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
4-Bromofluorobenzene (Surr)	ND		110		80 - 120				
Dibromofluoromethane (Surr)	ND		104		80 - 120				
Toluene-d8 (Surr)	ND		102		80 - 120				

Lab Sample ID: 440-6969-F-1 MSD

Matrix: Water

Analysis Batch: 18760

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		25.0	25.0		ug/L		100	65 - 140	4	20
1,1,1-Trichloroethane	ND		25.0	25.4		ug/L		102	65 - 140	2	20
1,1,2,2-Tetrachloroethane	ND		25.0	23.0		ug/L		92	55 - 135	3	30
1,1,2-Trichloroethane	ND		25.0	23.3		ug/L		93	65 - 130	0	25
1,1-Dichloroethane	ND		25.0	23.3		ug/L		93	65 - 130	5	20
1,1-Dichloroethene	ND		25.0	22.3		ug/L		89	60 - 130	1	20
1,1-Dichloropropene	ND		25.0	23.6		ug/L		94	70 - 135	0	20
1,2,3-Trichlorobenzene	ND		25.0	19.6		ug/L		78	60 - 135	4	20
1,2,3-Trichloropropane	ND		25.0	22.4		ug/L		90	55 - 135	0	30
1,2,4-Trichlorobenzene	ND		25.0	20.8		ug/L		83	65 - 135	2	20
1,2,4-Trimethylbenzene	ND		25.0	21.9		ug/L		88	55 - 135	5	25
1,2-Dibromo-3-Chloropropane	ND		25.0	22.9		ug/L		92	45 - 145	11	30
1,2-Dichlorobenzene	ND		25.0	22.2		ug/L		89	75 - 125	1	20
1,2-Dibromoethane (EDB)	ND		25.0	25.5		ug/L		102	70 - 130	7	25
1,2-Dichloroethane	ND		25.0	26.3		ug/L		105	60 - 140	2	20
1,2-Dichloropropene	ND		25.0	23.1		ug/L		92	65 - 130	3	20
1,3,5-Trimethylbenzene	ND		25.0	23.2		ug/L		93	70 - 130	1	20
1,3-Dichlorobenzene	ND		25.0	22.2		ug/L		89	75 - 125	1	20
1,3-Dichloropropane	ND		25.0	24.1		ug/L		96	65 - 135	0	25
1,4-Dichlorobenzene	ND		25.0	22.6		ug/L		90	75 - 125	1	20
2,2-Dichloropropene	ND		25.0	27.4		ug/L		110	60 - 145	6	25
2-Chlorotoluene	ND		25.0	22.7		ug/L		91	65 - 135	1	20
4-Chlorotoluene	ND		25.0	23.9		ug/L		96	70 - 135	1	20
p-Isopropyltoluene	ND		25.0	22.2		ug/L		89	65 - 130	1	20
Benzene	ND		25.0	21.3		ug/L		85	65 - 125	0	20
Bromobenzene	ND		25.0	21.9		ug/L		88	70 - 125	1	20
Bromochloromethane	ND		25.0	22.4		ug/L		90	65 - 135	1	25
Bromodichloromethane	ND		25.0	25.1		ug/L		100	70 - 135	4	20
Bromoform	ND		25.0	26.0		ug/L		104	55 - 135	4	25

QC Sample Results

Client: CDM Smith, Inc.

TestAmerica Job ID: 440-7065-1

Project/Site: Omega Chemical Groundwater

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-6969-F-1 MSD

Matrix: Water

Analysis Batch: 18760

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	RPD	Limit	
	Result	Qualifier	Added	Result	Qualifier								
Bromomethane	ND		25.0	25.1		ug/L		100	55 - 145	2	25		
Carbon tetrachloride	ND		25.0	25.7		ug/L		103	65 - 140	0	25		
Chlorobenzene	ND		25.0	23.3		ug/L		93	75 - 125	2	20		
Chloroethane	ND		25.0	22.8		ug/L		91	55 - 140	3	25		
Chloroform	ND		25.0	24.3		ug/L		97	65 - 135	4	20		
Chloromethane	ND		25.0	20.4		ug/L		82	45 - 145	2	25		
cis-1,2-Dichloroethene	ND		25.0	23.9		ug/L		96	65 - 130	4	20		
cis-1,3-Dichloropropene	ND		25.0	22.9		ug/L		92	70 - 130	2	20		
Dibromochloromethane	ND		25.0	26.2		ug/L		105	65 - 140	5	25		
Dibromomethane	ND		25.0	24.1		ug/L		96	65 - 135	3	25		
Dichlorodifluoromethane	ND		25.0	18.8		ug/L		75	25 - 155	4	30		
Ethylbenzene	ND		25.0	22.8		ug/L		91	65 - 130	3	20		
Hexachlorobutadiene	ND		25.0	23.2		ug/L		93	60 - 135	5	20		
Isopropylbenzene	ND		25.0	19.4		ug/L		78	70 - 135	5	20		
m,p-Xylene	ND		50.0	45.2		ug/L		90	65 - 130	2	25		
Methylene Chloride	ND		25.0	21.9		ug/L		88	50 - 135	3	20		
Methyl-t-Butyl Ether (MTBE)	ND		25.0	25.9		ug/L		104	55 - 145	1	25		
Naphthalene	ND		25.0	18.9		ug/L		76	50 - 140	3	30		
n-Butylbenzene	ND		25.0	23.2		ug/L		93	65 - 135	2	20		
N-Propylbenzene	ND		25.0	22.5		ug/L		90	70 - 135	1	20		
o-Xylene	ND		25.0	23.6		ug/L		94	65 - 125	6	20		
sec-Butylbenzene	ND		25.0	22.5		ug/L		90	70 - 125	1	20		
Styrene	ND		25.0	19.3		ug/L		77	50 - 145	13	30		
tert-Butylbenzene	ND		25.0	22.8		ug/L		91	65 - 130	2	20		
Tetrachloroethene	ND		25.0	23.6		ug/L		94	65 - 130	3	20		
Toluene	ND		25.0	21.2		ug/L		85	70 - 125	2	20		
trans-1,2-Dichloroethene	ND		25.0	22.6		ug/L		90	65 - 130	1	20		
trans-1,3-Dichloropropene	ND		25.0	25.5		ug/L		102	65 - 135	1	25		
Trichloroethene	ND		25.0	23.1		ug/L		92	65 - 125	0	20		
Trichlorofluoromethane	ND		25.0	28.6		ug/L		114	60 - 145	3	25		
Vinyl chloride	ND		25.0	22.8		ug/L		91	45 - 140	6	30		
Acetone	ND		25.0	26.2		ug/L		105	20 - 150	0	35		
Surrogate		MSD	MSD										
Surrogate		%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)		110		80 - 120									
Dibromofluoromethane (Surr)		99		80 - 120									
Toluene-d8 (Surr)		101		80 - 120									

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 440-17241/1-A

Matrix: Water

Analysis Batch: 17424

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 17241

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	MB	MB									
1,4-Dioxane	ND		ND		0.50	0.060	ug/L		04/03/12 17:59	04/04/12 22:03	1
Surrogate		MB	MB								
Surrogate		%Recovery	Qualifier	Limits							
1,4-Dioxane-d8 (Surr)		74		30 - 120							
Prepared				Analyzed				Dil Fac			
04/03/12 17:59				04/04/12 22:03				1			

QC Sample Results

Client: CDM Smith, Inc.

TestAmerica Job ID: 440-7065-1

Project/Site: Omega Chemical Groundwater

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 440-17241/2-A

Matrix: Water

Analysis Batch: 17424

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17241

Analyte		Spike	LCS	LCS	Unit	D	%Rec	%Rec.
		Added	Result	Qualifier				
1,4-Dioxane		2.00	1.53		ug/L	77	35 - 120	
Surrogate								
Surrogate	%Recovery	LCS	LCS	Limits				
		Qualifier						
1,4-Dioxane-d8 (Surr)	78			30 - 120				

Lab Sample ID: 440-6724-G-18-B MS

Matrix: Water

Analysis Batch: 17424

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 17241

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
1,4-Dioxane	ND		2.13	1.55		ug/L	73	35 - 120	
Surrogate									
Surrogate	%Recovery	MS	MS	Limits					
		Qualifier							
1,4-Dioxane-d8 (Surr)	72			30 - 120					

Lab Sample ID: 440-6724-H-18-C MSD

Matrix: Water

Analysis Batch: 17424

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 17241

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
1,4-Dioxane	ND		1.94	1.33		ug/L	68	35 - 120	
Surrogate									
Surrogate	%Recovery	MSD	MSD	Limits					
		Qualifier							
1,4-Dioxane-d8 (Surr)	68			30 - 120					

QC Association Summary

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Groundwater

TestAmerica Job ID: 440-7065-1

GC/MS VOA

Analysis Batch: 18760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-6969-F-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-6969-F-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
440-7065-1	OC_SP220B_EFF_032812	Total/NA	Water	8260B	
440-7065-2	OC_SP210_INF_032812	Total/NA	Water	8260B	
440-7065-3	OC_TB_032812	Total/NA	Water	8260B	
LCS 440-18760/4	Lab Control Sample	Total/NA	Water	8260B	
MB 440-18760/5	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 17241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-6724-G-18-B MS	Matrix Spike	Total/NA	Water	3520C	
440-6724-H-18-C MSD	Matrix Spike Duplicate	Total/NA	Water	3520C	
440-7065-1	OC_SP220B_EFF_032812	Total/NA	Water	3520C	
LCS 440-17241/2-A	Lab Control Sample	Total/NA	Water	3520C	
MB 440-17241/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 17424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-6724-G-18-B MS	Matrix Spike	Total/NA	Water	8270C SIM	17241
440-6724-H-18-C MSD	Matrix Spike Duplicate	Total/NA	Water	8270C SIM	17241
LCS 440-17241/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	17241
MB 440-17241/1-A	Method Blank	Total/NA	Water	8270C SIM	17241

Analysis Batch: 18732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-7065-1	OC_SP220B_EFF_032812	Total/NA	Water	8270C SIM	17241

Definitions/Glossary

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Groundwater

TestAmerica Job ID: 440-7065-1

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

⊗	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Groundwater

TestAmerica Job ID: 440-7065-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Irvine	Arizona	State Program	9	AZ0671
TestAmerica Irvine	California	LA Cty Sanitation Districts	9	10256
TestAmerica Irvine	California	NELAC	9	1108CA
TestAmerica Irvine	California	State Program	9	2706
TestAmerica Irvine	Guam	State Program	9	Cert. No. 12.002r
TestAmerica Irvine	Hawaii	State Program	9	N/A
TestAmerica Irvine	Nevada	State Program	9	CA015312007A
TestAmerica Irvine	New Mexico	State Program	6	N/A
TestAmerica Irvine	Northern Mariana Islands	State Program	9	MP0002
TestAmerica Irvine	Oregon	NELAC	10	4005
TestAmerica Irvine	USDA	Federal		P330-09-00080

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 440-7065-1

Login Number: 7065

List Source: TestAmerica Irvine

List Number: 1

Creator: Robb, Kathleen

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	Carlton Hamm Jr.
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix B.2

Treatment Plant Analytical Results

Vapor

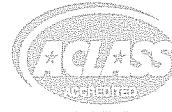
Appendix B.2.1

January 19, 2012

Vapor Analytical Results



February 2, 2012



ADE-1461
EPA Methods TO-3,
TO14A, TO15 SIM & Scan,
ASTM D1946



FL Cert E8784/LA Cert 04140
EPA Methods TO3, TO14A, TO15, 25C/3C,
RSK-175

TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

de maximis, inc.
ATTN: Jaime Dinello
1322 Scott St., Suite 104
San Diego, CA 92106

LABORATORY TEST RESULTS

Project Reference: Omega Chemical; E742
Lab Number: D011903-01/03

Enclosed are results for sample(s) received 1/19/12 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark Johnson".

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

		CHAIN OF CUSTODY RECORD				PAGE:
		TURNAROUND TIME		DELIVERABLES		1 OF 1
		Standard	<input checked="" type="checkbox"/> 48 hours	<input type="checkbox"/>	EDD <input checked="" type="checkbox"/>	Condition upon receipt:
		Same Day	<input type="checkbox"/>	<input type="checkbox"/> 72 hours	<input type="checkbox"/> EDF <input type="checkbox"/>	Sealed Yes <input type="checkbox"/> No <input type="checkbox"/>
		24 hours	<input type="checkbox"/>	<input type="checkbox"/> 96 hours	<input type="checkbox"/> Level 3 <input type="checkbox"/>	Intact Yes <input type="checkbox"/> No <input type="checkbox"/>
		Other:			<input type="checkbox"/> Level 4 <input type="checkbox"/>	Chilled _____ deg C
		ANALYSIS REQUEST				
Project No.:	E-742	P.O. No.:				
Project Name:	Omega Chemical	Bill to:	de maximis, inc.			
Report To:	Jamie Dinello/Sharon Wallin/Elizabeth DeCoia/Bill Lantz	13222 Scott Street, Suite 104				
Company:	CDM	San Diego, CA 92106				
Street:	111 Academy Way, Ste. 150					
City/State/Zip:	Irvine, CA 92617					
Phone & Fax:	949.752.5452					
e-mail:	jdinello@demaximis.com; wallinsl@cdm.com; DeColaEA@cdm.com					
LAB USE ONLY		SAMPLE IDENTIFICATION				
DO1903-01	OC_VGAC_INF_SP241_124544 011912	1/19/2012	1039	Summa	Air	No X
-02	OC_VGAC_INT_SP245_124544 011912	1/19/2012	1037	Summa	Air	No X
↓ -03	OC_VGAC_EFF_SP242_121544 011912 <i>(Handwritten)</i>	1/19/2012	1035	Summa	Air	No X
TO-15 select compounds ¹						
COMMENT 1 - Select compounds: Benzene, Carbon tetrachloride, Chloroform, p-Dichlorobenzene, 1,1-Dichloroethane, Ethylene dichloride, Methyl tert-butyl ether, Methylene chloride, Naphthalene, Perchloroethylene, 1,1,2-Trichloroethane, Trichloroethylene, Vinyl chloride						
AUTHORIZATION TO PERFORM WORK		COMPANY	DATE/TIME	COMPANY	DATE/TIME	DATE/TIME
SAMPLED BY	<i>Elizabeth Henner</i>	Jacob & Hefner Associates, Inc.	1/19/12	<i>Jacob & Hefner</i>	1/19/12	1/19/12
RELINQUISHED BY	<i>Elizabeth Henner</i>	DATE/TIME	RECEIVED BY	<i>Jacob & Hefner</i>	DATE/TIME	1/19/12
RELINQUISHED BY	<i>Elizabeth Henner</i>	DATE/TIME	RECEIVED BY	<i>Jacob & Hefner</i>	DATE/TIME	1/19/12
METHOD OF TRANSPORT (circle one):	Walk-In	FedEx	UPS	Courier	ATL	Other _____

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: H=HCl N=None / Container: B=Bag G=Can V=vOA O=Other

Rev. 03 - 5/7/03

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega Chemical
Project No.: E742
Date Received: 01/19/12
Matrix: Air
Reporting Units: ppbv

EPA Method TO15

Lab No.:	D011903-01			D011903-02			D011903-03				
Client Sample I.D.:	OC_VGAC_INF_SP241_01 1912			OC_VGAC_INT_SP245_01 1912			OC_VGAC_EFF_SP242_0 11912				
Date Sampled:	01/19/12			01/19/12			01/19/12				
Date Analyzed:	01/30/12			01/30/12			01/30/12				
QC Batch No.:	120130MS2A1			120130MS2A1			120130MS2A1				
Analyst Initials:	DT			DT			DT				
Dilution Factor:	1.7			1.7			1.7				
ANALYTE	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv	Result ppbv	RL ppbv	MDL ppbv		
Vinyl Chloride	ND	1.7	0.39	ND	1.7	0.37	ND	1.7	0.37		
Methylene Chloride	0.46 J	1.7	0.34	ND	1.7	0.33	ND	1.7	0.33		
1,1-Dichloroethane	ND	1.7	0.21	ND	1.7	0.20	ND	1.7	0.20		
t-Butyl Methyl Ether (MTBE)	ND	1.7	0.35	ND	1.7	0.33	ND	1.7	0.33		
Chloroform	1.4 J	1.7	0.24	0.31 J	1.7	0.23	ND	1.7	0.23		
Carbon Tetrachloride	ND	1.7	0.20	ND	1.7	0.19	ND	1.7	0.19		
Benzene	0.93 J	1.7	0.34	0.73 J	1.7	0.33	0.37 J	1.7	0.33		
1,2-Dichloroethane	ND	1.7	0.46	ND	1.7	0.44	ND	1.7	0.44		
Trichloroethene	14	1.7	0.27	ND	1.7	0.26	ND	1.7	0.26		
1,1,2-Trichloroethane	ND	1.7	0.36	ND	1.7	0.34	ND	1.7	0.34		
Tetrachloroethene	140	1.7	0.20	ND	1.7	0.19	0.68 J	1.7	0.19		
1,4-Dichlorobenzene	ND	1.7	0.30	ND	1.7	0.29	ND	1.7	0.29		
Naphthalene	ND	8.7	0.19	ND	8.4	0.18	ND	8.4	0.18		
TOC	160	1.7		1.0 J	1.7		1.1 J	1.7			

Surrogate	Result	QC Criteria						
1,2-Dichloroethane-d4	99%	70-130%	102%	70-130%	100%	70-130%	90%	70-130%
Toluene-d8	92%	70-130%	93%	70-130%	92%	70-130%	100%	70-130%
4-Bromofluorobenzene	92%	70-130%	92%	70-130%	93%	70-130%	96%	70-130%

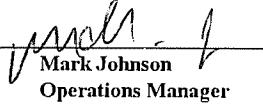
MDL = Method Detection Limit

ND= Not Detected (below MDL)

RL = Reporting Limit

J = Trace amount. Analyte concentration between RL and MDL.

Reviewed/Approved By: _____


Mark Johnson
Operations Manager

Date 1/30/12

The cover letter is an integral part of this analytical report



Air TECHNOLOGY Laboratories, Inc.

page 1 of 1

Client: de maximis, inc.
Attn: Jaime Dinello
Project Name: Omega Chemical
Project No.: E742
Date Received: 01/19/12
Matrix: Air
Reporting Units: ug/m³

EPA Method TO15

Lab No.:	D011903-01			D011903-02			D011903-03					
Client Sample I.D.:	OC_VGAC_INF_SP241_0 11912			OC_VGAC_INT_SP245_0 11912			OC_VGAC_EFF_SP242_0 11912					
Date Sampled:	01/19/12			01/19/12			01/19/12					
Date Analyzed:	01/30/12			01/30/12			01/30/12					
QC Batch No.:	120130MS2A1			120130MS2A1			120130MS2A1					
Analyst Initials:	DT			DT			DT					
Dilution Factor:	1.7			1.7			1.7					
ANALYTE	Result ug/m ³	RL ug/m ³	MDL ug/m ³	Result ug/m ³	RL ug/m ³	MDL ug/m ³	Result ug/m ³	RL ug/m ³	MDL ug/m ³			
Vinyl Chloride	ND	4.5	0.99	ND	4.3	0.95	ND	4.3	0.95			
Methylene Chloride	1.6 J	6.1	1.2	ND	5.9	1.1	ND	5.9	1.1			
1,1-Dichloroethane	ND	7.1	0.84	ND	6.8	0.81	ND	6.8	0.81			
t-Butyl Methyl Ether (MTBE)	ND	6.3	1.2	ND	6.1	1.2	ND	6.1	1.2			
Chloroform	6.6 J	8.5	1.2	1.5 J	8.2	1.1	ND	8.2	1.1			
Carbon Tetrachloride	ND	11	1.3	ND	11	1.2	ND	11	1.2			
Benzene	3.0 J	5.6	1.1	2.3 J	5.4	1.1	1.2 J	5.4	1.1			
1,2-Dichloroethane	ND	7.1	1.9	ND	6.8	1.8	ND	6.8	1.8			
Trichloroethene	76	9.4	1.5	ND	9.1	1.4	ND	9.1	1.4			
1,1,2-Trichloroethane	ND	9.5	1.9	ND	9.2	1.9	ND	9.2	1.9			
Tetrachloroethene	970	12	1.3	ND	11	1.3	4.6 J	11	1.3			
1,4-Dichlorobenzene	ND	10	1.8	ND	10	1.7	ND	10	1.7			
Naphthalene	ND	46	0.98	ND	44	0.95	ND	44	0.95			
TOC	1,100	4.5		3.8 J	4.3		5.8	4.3				

Surrogate	Result	QC Criteria						
1,2-Dichloroethane-d4	99%	70-130%	102%	70-130%	100%	70-130%	90%	70-130%
Toluene-d8	92%	70-130%	93%	70-130%	92%	70-130%	100%	70-130%
4-Bromofluorobenzene	92%	70-130%	92%	70-130%	93%	70-130%	96%	70-130%

MDL = Method Detection Limit

ND= Not Detected (below MDL)

RL = Reporting Limit

J = Trace amount. Analyte concentration between RL and MDL.

Reviewed/Approved By: Mark Johnson
Mark Johnson
Operations Manager

Date 1/31/12

The cover letter is an integral part of this analytical report



Air TECHNOLOGY Laboratories, Inc.

page 1 of 1

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 120130MS2A1

Matrix: Air

EPA Method TO-14/TO-15											
Lab No:	Method Blank		LCS		LCSD		Limits				
Date Analyzed:	01/30/12		01/30/12	01/30/12							
Data File ID:	30JAN010.D		30JAN008.D	30JAN009.D							
Analyst Initials:	DT		DT	DT							
Dilution Factor:	0.2		1.0	1.0							
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/Fail
1,1-Dichloroethene	0.0	10.0	9.8	98	9.1	91	7.2	70	130	30	Pass
Methylene Chloride	0.0	10.0	9.8	98	9.9	99	1.2	70	130	30	Pass
Trichloroethene	0.0	10.0	9.8	98	9.8	98	0.1	70	130	30	Pass
Toluene	0.0	10.0	9.6	96	9.0	90	6.6	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	8.1	81	8.5	85	5.3	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By:


 Mark Johnson
 Operations Manager

Date: 01/30/12

The cover letter is an integral part of this analytical report



Air TECHNOLOGY Laboratories, Inc.

Tune File : D:\GCMSB\120130\30JAN006.D

Tune Time : 30 Jan 2012 12:41

Daily Calibration File : D:\GCMSB\120130\30JAN007.D

Daily cali. I.S. response		
56297	238196	154832

File	Sample	Surrogate	Recovery %	Internal Standard Responses			
30JAN008	LCS	103	100	106	56163	230483	157018
30JAN009	LCSD	104	92	107	56330	238766	153159
30JAN010	METHOD BLANK	102	92	93	56691	227124	148061
30JAN020	D011903-01	99	92	92	50651	232194	144025
30JAN021	D011903-02	102	93	92	54576	227349	136226
30JAN022	D011903-03	100	92	93	53208	231849	141404

surrogate recovery limits 70-130%

Internal standard response limits 60-140%

t - fails 24hr time check * - fails criteria

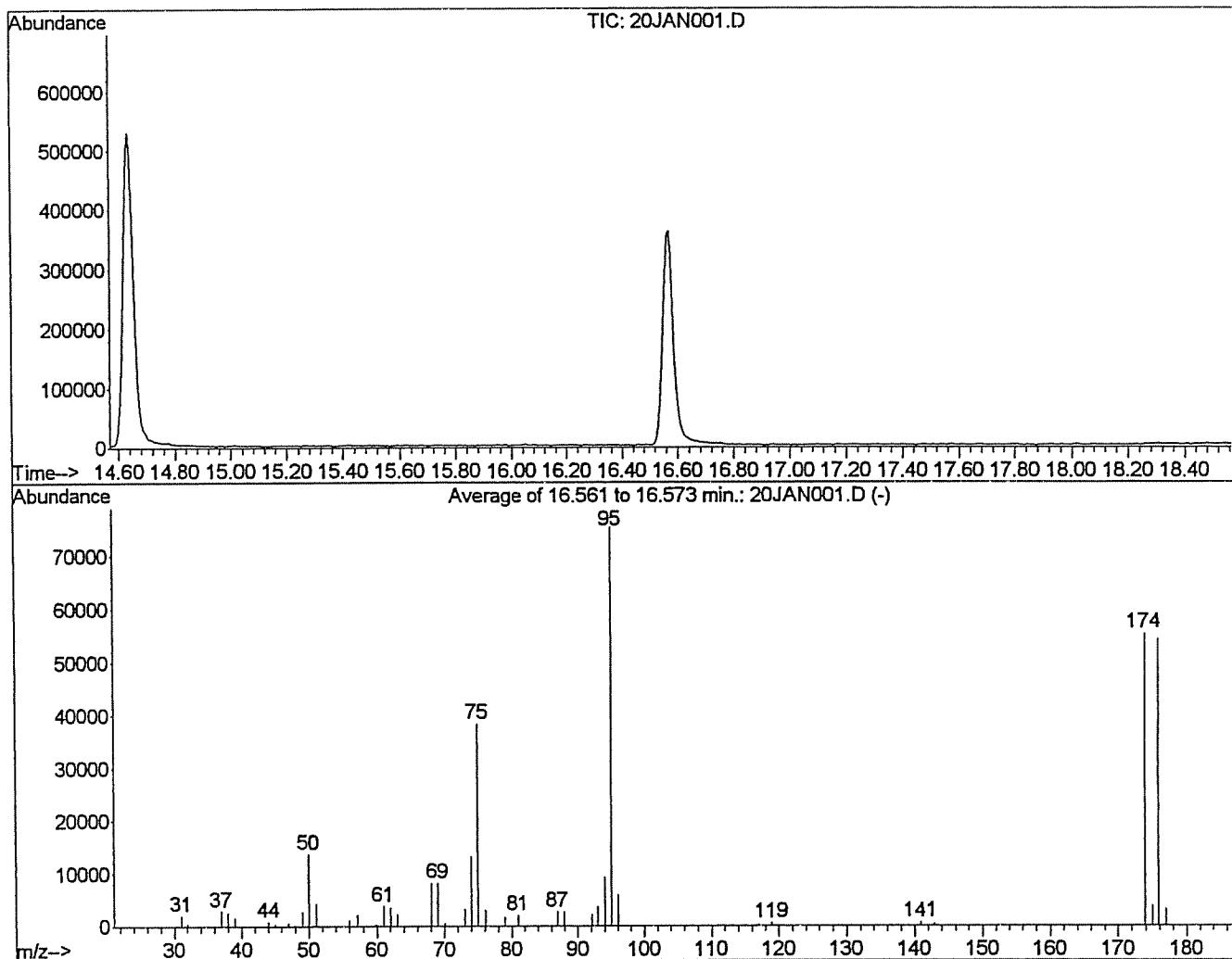
Created:Tue Jan 31 11:41:23 2012

BFB

Data File : D:\GCMSB\120116\20JAN001.D
 Acq On : 20 Jan 2012 8:32
 Sample : BFB
 Misc : 150ML

Vial: 4
 Operator: DT
 Inst. : GC/MS 597
 Multiplr: 1.00

MS Integration Params: RTEINT.P
 Method : D:\GCMSB\METHODS\TO120120.M (RTE Integrator)
 Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm



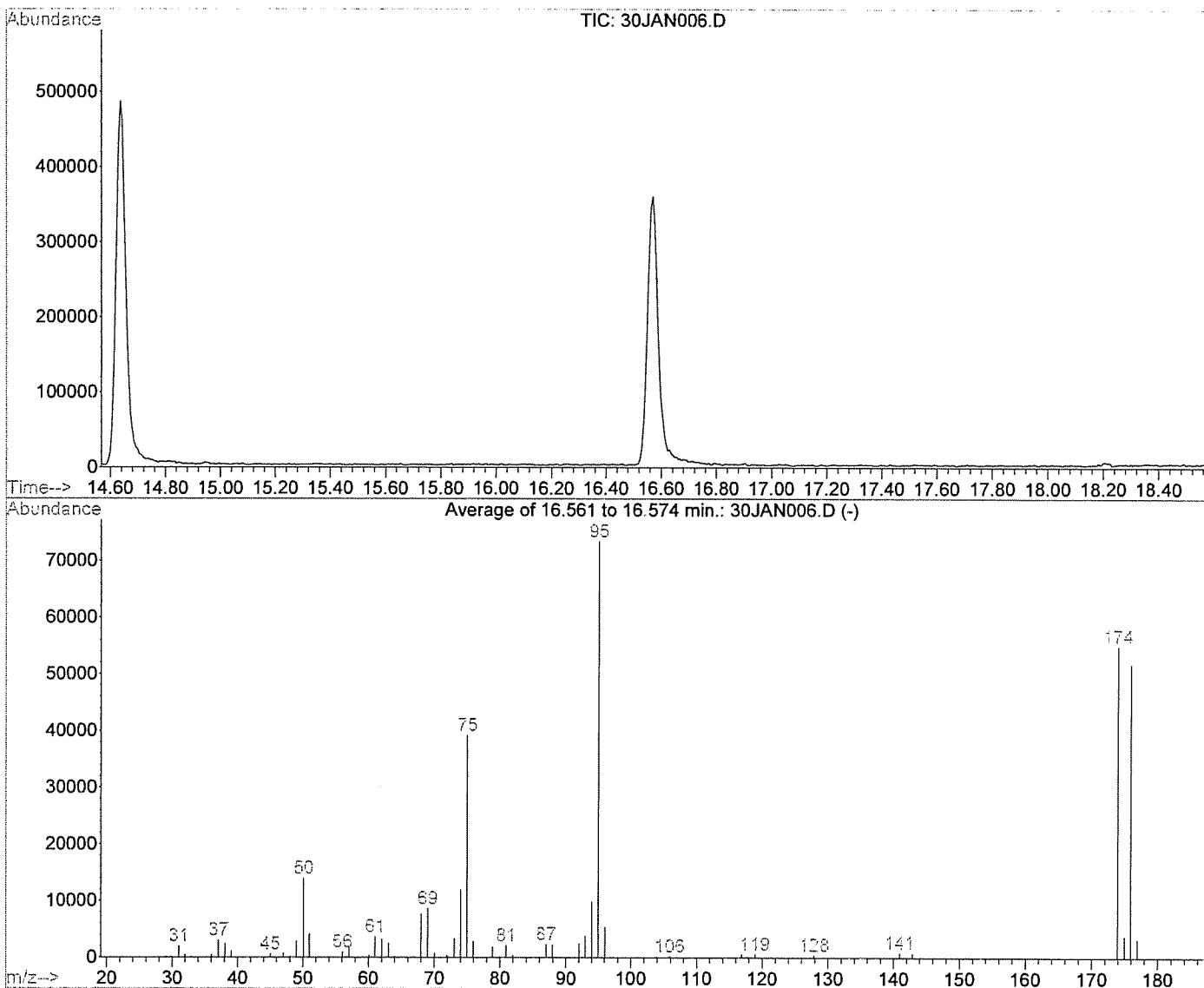
AutoFind: Scans 2201, 2202, 2203; Background Corrected with Scan 2190

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.2	13711	PASS
75	95	30	60	50.9	38352	PASS
95	95	100	100	100.0	75373	PASS
96	95	5	9	7.8	5887	PASS
173	174	0.00	2	0.3	171	PASS
174	95	50	100	73.4	55325	PASS
175	174	5	9	7.0	3885	PASS
176	174	95	101	98.3	54365	PASS
177	176	5	9	5.9	3192	PASS

Data File : D:\GCMSB\120130\30JAN006.D
 Acq On : 30 Jan 2012 12:41
 Sample : BFB
 Misc : 150ML

MS Integration Params: RTEINT.P
 Method : D:\GCMSB\METHODS\TO120120.M (RTE Integrator)
 Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm

Vial: 11
 Operator: DT
 Inst : GC/MS 597
 Multiplr: 1.00



AutoFind: Scans 2201, 2202, 2203; Background Corrected with Scan 2190

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	19.0	13953	PASS
75	95	30	60	53.4	39211	PASS
95	95	100	100	100.0	73443	PASS
96	95	5	9	7.3	5336	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	74.8	54968	PASS
175	174	5	9	6.9	3815	PASS
176	174	95	101	94.2	51795	FAIL*
177	176	5	9	6.3	3266	PASS

Response Factor Report GC/MS 597

Method : D:\GCMSB\METHODS\TO120120.M (RTE Integrator)
 Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
 Last Update : Fri Jan 20 17:08:17 2012
 Response via : Initial Calibration

Calibration Files

1	=20JAN006.D	5	=20JAN007.D	10	=20JAN002.D
25	=20JAN005.D	100	=20JAN008.D	250	=20JAN009.D

	Compound	1	5	10	25	100	250	Avg	%RSD
<hr/>									
1)	I Bromochloromethane				-----ISTD-----				
2)	Dichlorodifluoromethane	6.611	6.062	6.102	5.120	4.726	3.416	5.340	21.91
3)	Chloromethane	1.517	1.434	1.362	1.199	1.141	0.919	1.262	17.38
4)	1,2-Cl-1,1,2,2-F et	5.751	5.362	5.503	4.650	4.184	3.153	4.767	20.60
5)	Vinyl Chloride	1.377	1.479	1.482	1.271	1.241	0.993	1.307	14.07
6)	Bromomethane	1.877	1.419	0.972	1.159	1.263	1.010	1.283	26.02
7)	Chloroethane	1.041	0.978	0.979	0.820	0.795	0.651	0.877	16.79
8)	Trichlorofluorometh	6.451	6.415	6.266	5.399	5.108	3.928	5.594	17.71
9)	M 1,1-Dichloroethene	3.387	3.211	3.218	2.797	2.689	2.093	2.899	16.48
10)	Carbon Disulfide	6.264	6.082	5.100	4.267	4.261	3.306	4.880	23.62
11)	1,1,2-Cl 1,2,2-F et	3.380	3.376	3.333	2.831	2.679	2.055	2.942	17.99
12)	Acetone				3.830	3.533	2.749	2.793	2.127
13)	M Methylene Chloride	1.791	1.672	1.663	1.386	1.369	1.095	1.496	17.31
14)	t-1,2-Dichloroethen	1.557	1.812	1.957	1.708	1.658	1.330	1.670	12.92
15)	1,1-Dichloroethane	3.488	3.540	3.569	3.086	2.884	2.172	3.123	17.35
16)	Vinyl Acetate	3.531	5.430	5.197	5.013	5.532	4.178	4.814	16.44
17)	c-1,2-Dichloroethen	1.910	1.974	1.975	1.753	1.671	1.272	1.759	15.28
18)	2-Butanone	0.388	0.876	0.931	0.820	0.825	0.653	0.749	26.68
19)	t-Butyl Methyl Ethe	5.050	5.110	5.333	4.696	4.765	3.920	4.812	10.30
20)	t Chloroform	4.480	4.629	4.456	3.912	3.730	2.898	4.018	16.23
21)	1,1,1-Trichloroetha	4.442	4.689	4.549	4.001	4.001	3.174	4.143	13.36
22)	1,1-Dichloropropene	2.726	2.759	2.746	2.479	2.420	1.902	2.506	13.15
23)	t Carbon Tetrachlorid	4.387	4.353	4.400	3.939	4.104	3.209	4.065	11.26
24)	I 1,4-Difluorobenzene				-----ISTD-----				
25)	T Benzene	2.123	1.443	1.425	1.218	1.315	1.130	1.442	24.57
26)	S 1,2-Dichloroethane-	0.387	0.408	0.383	0.427	0.490	0.383	0.413	10.05
27)	1,2-Dichloroethane	0.692	0.715	0.732	0.645	0.721	0.601	0.685	7.46
28)	M Trichloroethene	0.543	0.600	0.603	0.552	0.607	0.530	0.572	6.06
29)	1,2-Dichloropropane	0.439	0.463	0.475	0.419	0.476	0.422	0.449	5.68
30)	Bromodichloromethan	0.928	1.044	1.046	0.944	1.066	0.875	0.984	7.97
31)	Dibromomethane	0.452	0.532	0.519	0.478	0.537	0.451	0.495	7.95
32)	c-1,3-Dichloropropo	0.552	0.659	0.682	0.650	0.812	0.721	0.679	12.64
33)	4-Methyl-2-Pentanon	0.894	0.882	0.885	0.838	0.977	0.850	0.888	5.49
34)	S Toluene-d8	0.768	0.768	0.756	0.785	0.802	0.816	0.783	2.89
35)	M Toluene	1.539	1.477	1.524	1.388	1.540	1.318	1.464	6.28
36)	I Chlorobenzene-d5				-----ISTD-----				
37)	t-1,3-Dichloropropo	0.586	0.854	0.874	0.818	1.030	0.936	0.850	17.58
38)	1,1,2-Trichloroetha	0.874	0.900	0.869	0.744	0.771	0.681	0.807	10.82
39)	1,3-Dichloropropane	1.003	1.112	1.164	0.974	1.077	0.949	1.047	8.07
40)	Tetrachloroethene	1.244	1.193	1.190	0.982	1.027	0.892	1.088	12.95
41)	2-Hexanone	0.367	0.625	0.638	0.590	0.688	0.615	0.587	19.16

(#= Out of Range

TO120120.M

Mon Jan 23 08:37:53 2012

GCMSB

Page 1

Response Factor Report GC/MS 597

Method : D:\GCMSB\METHODS\TO120120.M (RTE Integrator)
 Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
 Last Update : Fri Jan 20 17:08:17 2012
 Response via : Initial Calibration

Calibration Files

1	=20JAN006.D	5	=20JAN007.D	10	=20JAN002.D
25	=20JAN005.D	100	=20JAN008.D	250	=20JAN009.D

	Compound	1	5	10	25	100	250	Avg	%RSD
42)	Dibromochloromethan	1.232	1.474	1.469	1.264	1.442	1.264	1.357	8.49
43)	t 1,2-Dibromoethane	1.182	1.332	1.305	1.124	1.239	1.086	1.211	8.13
44)	Chlorobenzene	1.897	1.785	1.772	1.521	1.624	1.440	1.673	10.44
45)	1,1,1,2-Tetrachloro	0.773	0.872	0.899	0.783	0.865	0.769	0.827	7.02
46)	T Ethylbenzene	2.763	2.798	2.736	2.520	2.645	2.239	2.617	8.03
47)	T p,&m-Xylene	2.272	2.474	2.223	1.988	2.012	1.543	2.085	15.38
48)	T o-Xylene	2.344	2.437	2.284	2.070	2.196	1.855	2.197	9.53
49)	Styrene	1.115	1.480	1.423	1.355	1.476	1.320	1.362	10.04
50)	Bromoform	1.062	1.241	1.141	1.041	1.271	1.107	1.144	8.24
51)	Isopropyl benzene	2.383	2.460	2.506	2.341	2.469	2.158	2.386	5.34
52)	M 1,1,2,2-Tetrachloro	1.916	2.060	1.599	1.401	1.530	1.325	1.639	17.74
53)	S 4-Bromofluorobenzen	0.396	0.392	0.383	0.426	0.422	0.447	0.411	5.99
54)	Benzyl Chloride	0.791	1.065	0.863	1.057	1.806	1.732	1.219	36.09
55)	1,2,3-Trichloroprop	0.557	0.564	0.574	0.497	0.552	0.492	0.539	6.61
56)	n-Propyl Benzene	2.520	2.783	2.896	2.747	2.916	2.402	2.711	7.65
57)	Bromobenzene	1.481	1.423	1.490	1.351	1.433	1.187	1.394	8.11
58)	4-Ethyl Toluene	2.526	3.084	2.695	2.501	2.831	2.407	2.674	9.41
59)	T 1,3,5-Trimethylbenz	2.893	3.077	2.535	2.268	2.360	2.011	2.524	15.83
60)	2-Chlorotoluene	2.357	2.515	2.319	2.142	2.175	1.871	2.230	9.93
61)	4-Chlorotoluene	1.864	1.888	1.978	1.824	1.986	1.786	1.888	4.29
62)	tert-Butylbenzene	1.875	2.442	2.397	2.193	2.337	2.057	2.217	9.90
63)	1,2,4-Trimethylbenz	2.562	2.793	2.321	2.165	2.391	2.042	2.379	11.40
64)	sec-Butylbenzene	2.564	2.713	2.638	2.519	2.656	2.261	2.558	6.29
65)	p-Isopropyltoluene	1.757	2.134	2.182	2.082	2.244	1.952	2.059	8.64
66)	1,3-Dichlorobenzene	1.675	1.589	1.308	1.297	1.475	1.298	1.440	11.49
67)	1,4-Dichlorobenzene	1.621	1.512	1.201	1.207	1.426	1.269	1.373	12.67
68)	n-Butylbenzene	1.574	1.853	1.882	1.811	2.029	1.757	1.817	8.28
69)	1,2-Dichlorobenzene	1.475	1.508	1.223	1.210	1.402	1.242	1.344	10.00
70)	1,2-Dibromo-3-chlor	0.256	0.347	0.366	0.370	0.490	0.458	0.381	21.89
71)	1,2,4-Trichlorobenz	0.469	0.482	0.454	0.693	0.981	0.920	0.667	35.60
72)	Hexachlorobutadiene	0.662	0.719	0.515	0.745	0.881	0.787	0.718	17.24

Method : D:\GCMSB\METHODS\AL120120.M (RTE Integrator)
 Title : EPA TO-15(09/27/05), GC Column:RTxVolatiles 0.32mm
 Last Update : Mon Jan 23 08:17:27 2012
 Response via : Initial Calibration

Calibration Files

1	=20JAN006.D	5	=20JAN007.D	10	=20JAN002.D
25	=20JAN005.D	100	=20JAN008.D	250	=20JAN009.D

	Compound	1	5	10	25	100	250	Avg	%RSD
1) I	Bromochloromethane	-----	-----	ISTD	-----	-----	-----	-----	-----
2)	Propene	1.228	1.266	1.072	1.001	0.778	1.069	18.32	
3)	isobutane	0.037	0.055	0.051	0.052	0.042	0.047	16.33	
4)	1,3-Butadiene	0.841	0.872	0.909	0.773	0.802	0.649	0.808	11.35
5)	Methanol	3.205	0.609	0.515	0.327	0.303	0.238	0.866	133.27 NA
6)	Acetaldehyde		0.533	0.437	0.364	0.336	0.268	0.388	26.18
7)	Ethanol		0.582	0.505	0.462	0.498	0.413	0.492	12.61
8)	Vinyl Bromide	1.414	1.621	1.582	1.375	1.403	1.139	1.422	12.08
9)	Isopropanol	3.426	2.791	2.723	2.469	2.630	2.106	2.691	16.17
10)	Acrolein	0.356	0.510	0.463	0.426	0.502	0.402	0.443	13.50
11)	t-Butanol	2.027	2.561	2.769	2.553	2.685	2.345	2.490	10.78
12)	Allyl Chloride	1.672	1.842	1.888	1.804	1.754	1.433	1.732	9.50
13)	Acrylonitrile		0.814	0.922	0.904	0.962	0.811	0.882	7.66
14)	t-Butyl methyl ethe	4.935	5.110	5.294	4.697	4.765	3.924	4.788	9.96
15)	n-Hexane	2.504	2.555	2.722	2.355	2.298	1.827	2.377	12.98
16)	Isopropyl ether	4.723	4.790	4.975	4.377	4.257	3.257	4.397	14.08
17)	t-Butyl ethyl ether	1.721	1.973	2.094	1.855	1.909	1.581	1.855	9.83
18)	Ethyl Acetate		0.443	0.482	0.452	0.425	0.329	0.426	13.64
19)	2,2-Dichloropropane	2.728	2.773	2.778	2.688	2.833	2.232	2.672	8.28
20)	Tetrahydrofuran	0.844	0.895	0.888	0.794	0.820	0.666	0.818	10.25
21)	Cyclohexane	2.429	2.638	2.705	2.404	2.337	1.872	2.397	12.27
22)	2,2,4-Trimethylpent	7.194	7.607	7.635	6.767	6.378	4.844	6.737	15.55
23) I	1,4-Difluorobenzene	-----	-----	ISTD	-----	-----	-----	-----	-----
24) S	1,2-Dichloroethane-	0.400	0.412	0.419	0.424	0.426	0.385	0.411	3.88
25)	t-Amyl methyl ether	0.901	0.985	1.034	0.957	1.133	1.032	1.007	7.88
26)	Heptane	0.370	0.433	0.461	0.408	0.458	0.405	0.422	8.34
27)	1,4-Dioxane	0.349	0.343	0.312	0.292	0.336	0.291	0.320	8.07
28)	2-chloroethylvinyle			0.001	0.004	0.005	0.004	0.003	51.76 NA
29) S	Toluene-d8	0.768	0.770	0.758	0.777	0.799	0.814	0.781	2.71
30)	Chlorobenzene-d5	-----	-----	ISTD	-----	-----	-----	-----	-----
31)	Cyclohexanone		0.544	0.646	0.581	0.644	0.585	0.600	7.36
32) S	4-Bromofluorobenzen	0.564	0.553	0.550	0.600	0.640	0.744	0.608	12.24
33)	Dicyclopentadiene		0.019	0.022	0.023	0.023	0.021	0.022	7.55
34)	Naphthalene		0.888	0.794	1.374	2.064	1.966	1.417	41.61
35)	1,2,3-Trichlorobenz				0.001	0.005	0.005	0.004	64.47 NA

(#= Out of Range

AL120120.M

Mon Jan 23 08:20:25 2012

GCMSB

Page 1

D011903

Vial: 11

Operator: DT

Inst : GC/MS 597

Multiplr: 1.00

Data File : D:\GCMSB\120130\30JAN007.D
 Acq On : 30 Jan 2012 13:17
 Sample : CCV
 Misc : 50ML
 MS Integration Params: RTEINT.P

Method : D:\GCMSB\METHODS\TO120120.M (RTE Integrator)
 Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
 Last Update : Fri Jan 20 17:08:17 2012
 Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	92	0.00
2	Dichlorodifluoromethane (12)	5.340	4.939	7.5	75	0.02
3	Chloromethane	1.262	1.076	14.7	73	0.02
4	1,2-Cl-1,1,2,2-F ethane (11)	4.767	4.412	7.4	74	0.02
5	Vinyl Chloride	1.307	1.132	13.4	71	0.02
6	Bromomethane	1.283	1.153	10.1	110	0.01
7	Chloroethane	0.877	0.733	16.4	69	0.01
8	Trichlorofluoromethane (11)	5.594	5.114	8.6	75	0.01
9 M	1,1-Dichloroethene	2.899	2.466	14.9	71	0.00
10	Carbon Disulfide	4.880	3.930	19.5	71	0.01
11	1,1,2-Cl 1,2,2-F ethane (11)	2.942	2.692	8.5	75	0.00
12	Acetone	3.006	2.710	9.8	71	0.02
13 M	Methylene Chloride	1.496	1.255	16.1	70	0.00
14	t-1,2-Dichloroethene	1.670	1.510	9.6	71	0.00
15	1,1-Dichloroethane	3.123	2.852	8.7	74	0.00
16	Vinyl Acetate	4.814	3.993	17.1	71	0.00
17	c-1,2-Dichloroethene	1.759	1.534	12.8	72	0.00
18	2-Butanone	0.749	0.642	14.3	64	0.01
19	t-Butyl Methyl Ether	4.812	3.855	19.9	67	0.00
20 t	Chloroform	4.018	3.595	10.5	75	0.00
21	1,1,1-Trichloroethane	4.143	3.655	11.8	74	0.00
22	1,1-Dichloropropene	2.506	2.142	14.5	72	0.00
23 t	Carbon Tetrachloride	4.065	3.503	13.8	74	0.00
24 I	1,4-Difluorobenzene	1.000	1.000	0.0	90	0.00
25 T	Benzene	1.442	1.134	21.4	71	0.00
26 S	1,2-Dichloroethane-d4	0.413	0.434	-5.1	102	0.00
27	1,2-Dichloroethane	0.685	0.647	5.5	79	0.00
28 M	Trichloroethene	0.572	0.481	15.9	71	0.00
29	1,2-Dichloropropane	0.449	0.376	16.3	71	0.00
30	Bromodichloromethane	0.984	0.871	11.5	75	0.00
31	Dibromomethane	0.495	0.446	9.9	77	0.00
32	c-1,3-Dichloropropene	0.679	0.538	20.8	71	0.00
33	4-Methyl-2-Pentanone	0.888	0.656	26.1	66	0.00
34 S	Toluene-d8	0.783	0.744	5.0	88	0.00
35 M	Toluene	1.464	1.202	17.9	71	0.00

(#) = Out of Range

30JAN007.D TO120120.M

Mon Jan 30 14:04:03 2012

GCMSB

Page 1

Data File : D:\GCMSB\120130\30JAN007.D
 Acq On : 30 Jan 2012 13:17
 Sample : CCV
 Misc : 50ML
 MS Integration Params: RTEINT.P

Method : D:\GCMSB\METHODS\TO120120.M (RTE Integrator)
 Title : EPA TO-14/TO-15 (09/27/05) RTxVolatiles 0.32mm
 Last Update : Fri Jan 20 17:08:17 2012
 Response via : Multiple Level Calibration

Min. RRF : 0.100 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40	Tetrachloroethene	1.088	0.953	12.4	73	0.00
41	2-Hexanone	0.587	0.449	23.5	64	0.00
42	Dibromochloromethane	1.357	1.180	13.0	74	0.00
43 t	1,2-Dibromoethane	1.211	1.013	16.4	71	0.00
44	Chlorobenzene	1.673	1.398	16.4	72	0.00
45	1,1,1,2-Tetrachloroethane	0.827	0.716	13.4	73	0.00
46 T	Ethylbenzene	2.617	2.203	15.8	74	0.00
47 T	p,&m-Xylene	2.085	1.914	8.2	79	0.00
48 T	o-Xylene	2.197	1.836	16.4	74	0.00
49	Styrene	1.362	1.151	15.5	74	0.00
50	Bromoform	1.144	0.906	20.8	73	0.00
51	Isopropyl benzene	2.386	2.116	11.3	77	0.00
52 M	1,1,2,2-Tetrachloroethane	1.639	1.328	19.0	76	0.00
53 S	4-Bromofluorobenzene	0.411	0.431	-4.9	103	0.00
54	Benzyl Chloride	1.219	0.788	35.4#	84	0.00
55	1,2,3-Trichloropropane	0.539	0.470	12.8	75	0.00
56	n-Propyl Benzene	2.711	2.473	8.8	78	0.00
57	Bromobenzene	1.394	1.253	10.1	77	0.00
58	4-Ethyl Toluene	2.674	2.218	17.1	75	0.00
59 T	1,3,5-Trimethylbenzene	2.524	2.106	16.6	76	0.00
60	2-Chlorotoluene	2.230	2.086	6.5	82	0.00
61	4-Chlorotoluene	1.888	1.725	8.6	80	0.00
62	tert-Butylbenzene	2.217	2.035	8.2	78	0.00
63	1,2,4-Trimethylbenzene	2.379	2.067	13.1	81	0.00
64	sec-Butylbenzene	2.558	2.336	8.7	81	0.00
65	p-Isopropyltoluene	2.059	1.825	11.4	77	0.00
66	1,3-Dichlorobenzene	1.440	1.193	17.2	83	0.00
67	1,4-Dichlorobenzene	1.373	1.135	17.3	86	0.00
68	n-Butylbenzene	1.817	1.647	9.4	80	0.00
69	1,2-Dichlorobenzene	1.344	1.116	17.0	83	0.00
70	1,2-Dibromo-3-chloropropane	0.381	0.294	22.8	74	0.00
71	1,2,4-Trichlorobenzene	0.667	0.554	16.9	112	0.00
72	Hexachlorobutadiene	0.718	0.658	8.4	117	0.00

Data File : D:\GCMSB\120130\30JAN007.D
 Acq On : 30 Jan 2012 13:17
 Sample : CCV
 Misc : 50ML
 MS Integration Params: RTEINT.P

Vial: 11
 Operator: DT
 Inst : GC/MS 597
 Multiplr: 1.00

Method : D:\GCMSB\METHODS\AL120120.M (RTE Integrator)
 Title : EPA TO-15(09/27/05), GC Column: RTxVolatiles 0.32mm
 Last Update : Mon Jan 23 08:17:27 2012
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

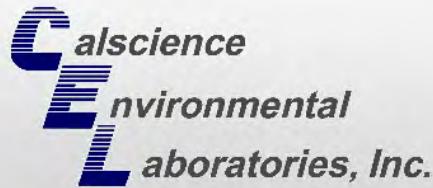
	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	93	0.00
2	Propene	1.069	0.875	18.1	64	0.02
3	isobutane	0.047	0.019	NA 59.6#	32#	0.00
4	1,3-Butadiene	0.808	0.650	19.6	66	0.01
5	Methanol	0.866	0.416	NA 52.0#	75	0.02
6	Acetaldehyde	0.388	0.314	19.1	67	0.03
7	Ethanol	0.492	0.355	27.8	65	0.03
8	Vinyl Bromide	1.422	1.216	14.5	71	0.02
9	Isopropanol	2.691	1.836	NA 31.8#	63	0.00
10	Acrolein	0.443	0.322	27.3	65	0.03
11	t-Butanol	2.490	0.983	NA 60.5#	33#	0.00
12	Allyl Chloride	1.732	1.532	11.5	75	0.00
13	Acrylonitrile	0.882	0.809	8.3	82	0.01
14	t-Butyl methyl ether	4.788	3.811	20.4	67	0.00
15	n-Hexane	2.377	1.958	17.6	67	0.00
16	Isopropyl ether	4.397	3.725	15.3	70	0.00
17	t-Butyl ethyl ether	1.855	1.433	22.7	64	0.00
18	Ethyl Acetate	0.426	0.349	18.1	67	0.01
19	2,2-Dichloropropane	2.672	2.219	17.0	74	0.00
20	Tetrahydrofuran	0.818	0.657	19.7	69	0.00
21	Cyclohexane	2.397	2.043	14.8	70	0.01
22	2,2,4-Trimethylpentane	6.737	6.007	10.8	73	0.00
23 I	1,4-Difluorobenzene	1.000	1.000	0.0	89	0.00
24 S	1,2-Dichloroethane-d4	0.411	0.436	-6.1	93	0.00
25	t-Amyl methyl ether	1.007	0.755	25.0	65	0.00
26	Heptane	0.422	0.362	14.2	70	0.00
27	1,4-Dioxane	0.320	0.249	22.2	71	0.00
28	2-chloroethylvinylether	0.003	0.009	NA 200.0#	975#	-0.09
29 S	Toluene-d8	0.781	0.743	4.9	88	0.00
30	Chlorobenzene-d5	1.000	1.000	0.0	91	0.00
31	Cyclohexanone	0.600	0.487	18.8	68	0.00
32 S	4-Bromofluorobenzene	0.608	0.615	-1.2	101	0.00
33	Dicyclopentadiene	0.022	0.015	NA 31.8#	61	-0.01
34	Naphthalene	1.417	1.058	25.3	121	0.00
35	1,2,3-Trichlorobenzene	0.004	0.000	NA 100.0#	0#	-22.28#

5-1/31/12

Appendix B.2.2

February 21, 2012

Vapor Analytical Results



CALSCIENCE

WORK ORDER NUMBER: 12-02-1269

The difference is service



AIR SOIL WATER MARINE CHEMISTRY

Analytical Report For

Client: de maximis, inc.

Client Project Name: Omega

Attention: Jaime Dinello

1322 Scott Street, Suite 104
San Diego, CA 92106-2727

Approved for release on 02/28/2012 by:
Stephen Nowak
Project Manager

[ResultLink ▶](#)

[Email your PM ▶](#)



Calscience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety. Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.



7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501 • www.calscience.com

NELAP ID: 03220CA | DoD-ELAP ID: L10-41 | CSDLAC ID: 10109 | SCAQMD ID: 93LA0830

Client: de maximis, inc. Work Order: 12-02-1269
 1322 Scott Street, Suite 104 Project Name: Omega
 San Diego, CA 92106-2727 Received: 02/21/12 17:58
 Attn: Jaime Dinello

DETECTIONS SUMMARY

Client Sample ID

Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
OC_VGAC_INF_SP241_022112						
Chloroform	60		5.0	ppb (v/v)	EPA TO-15	N/A
1,2-Dichloroethane	10		5.0	ppb (v/v)	EPA TO-15	N/A
Tetrachloroethene	1400		20	ppb (v/v)	EPA TO-15	N/A
Trichloroethene	87		5.0	ppb (v/v)	EPA TO-15	N/A
OC_VGAC_INT_SP245_022112						
Chloroform	2.2		0.50	ppb (v/v)	EPA TO-15	N/A
1,1-Dichloroethane	0.58		0.50	ppb (v/v)	EPA TO-15	N/A
OC_VGAC_EFF_SP242_022112						
Tetrachloroethene	2.3		0.50	ppb (v/v)	EPA TO-15	N/A

Subcontracted analyses, if any, are not included in this summary.

*MDL is shown.



Client: de maximis, inc.
 1322 Scott Street, Suite 104
 San Diego, CA 92106-2727
 Attn: Jaime Dinello

Work Order: 12-02-1269
 Project Name: Omega
 Received: 02/21/12 17:58

DETECTIONS SUMMARY

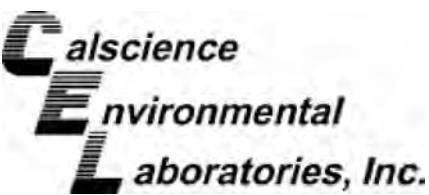
Client Sample ID

Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
OC_VGAC_INF_SP241_022112						
Chloroform	290		24	ug/m3	EPA TO-15	N/A
1,2-Dichloroethane	42		20	ug/m3	EPA TO-15	N/A
Tetrachloroethene	9600		140	ug/m3	EPA TO-15	N/A
Trichloroethene	470		27	ug/m3	EPA TO-15	N/A
OC_VGAC_INT_SP245_022112						
Chloroform	11		2.4	ug/m3	EPA TO-15	N/A
1,1-Dichloroethane	2.3		2.0	ug/m3	EPA TO-15	N/A
OC_VGAC_EFF_SP242_022112						
Tetrachloroethene	16		3.4	ug/m3	EPA TO-15	N/A

Subcontracted analyses, if any, are not included in this summary.

*MDL is shown.





Analytical Report



de maximis, inc.
1322 Scott Street, Suite 104
San Diego, CA 92106-2727

Date Received: 02/21/12
Work Order No: 12-02-1269
Preparation: N/A
Method: EPA TO-15
Units: ppb (v/v)

Project: Omega

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
OC_VGAC_INF_SP241_022112	12-02-1269-1-A	02/21/12 12:05	Air	GC/MS K	N/A	02/22/12 04:20	120221L01

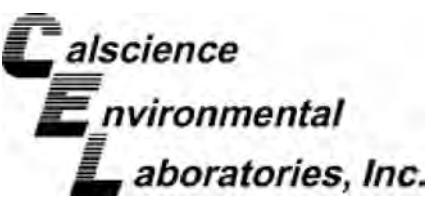
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	10		Methylene Chloride	ND	50	10	
Carbon Tetrachloride	ND	5.0	10		Naphthalene	ND	50	10	
Chloroform	60	5.0	10		Tetrachloroethene	1400	20	40	
1,1-Dichloroethane	ND	5.0	10		Trichloroethene	87	5.0	10	
1,2-Dichloroethane	10	5.0	10		1,1,2-Trichloroethane	ND	5.0	10	
1,4-Dichlorobenzene	ND	5.0	10		Vinyl Chloride	ND	5.0	10	
Methyl-t-Butyl Ether (MTBE)	ND	20	10						
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,4-Bromofluorobenzene	101	57-129			1,2-Dichloroethane-d4	111	47-137		
Toluene-d8	96	78-156							
OC_VGAC_INT_SP245_022112	12-02-1269-2-A	02/21/12 11:45	Air	GC/MS K	N/A	02/22/12 01:08	120221L01		

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methylene Chloride	ND	5.0	1	
Carbon Tetrachloride	ND	0.50	1		Naphthalene	ND	5.0	1	
Chloroform	2.2	0.50	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethane	0.58	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
Methyl-t-Butyl Ether (MTBE)	ND	2.0	1						
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,4-Bromofluorobenzene	103	57-129			1,2-Dichloroethane-d4	110	47-137		
Toluene-d8	94	78-156							
OC_VGAC_EFF_SP242_022112	12-02-1269-3-A	02/21/12 11:36	Air	GC/MS K	N/A	02/22/12 00:15	120221L01		

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methylene Chloride	ND	5.0	1	
Carbon Tetrachloride	ND	0.50	1		Naphthalene	ND	5.0	1	
Chloroform	ND	0.50	1		Tetrachloroethene	2.3	0.50	1	
1,1-Dichloroethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
Methyl-t-Butyl Ether (MTBE)	ND	2.0	1						
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,4-Bromofluorobenzene	103	57-129			1,2-Dichloroethane-d4	112	47-137		
Toluene-d8	96	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



de maximis, inc.
1322 Scott Street, Suite 104
San Diego, CA 92106-2727

Date Received: 02/21/12
Work Order No: 12-02-1269
Preparation: N/A
Method: EPA TO-15
Units: ppb (v/v)

Project: Omega

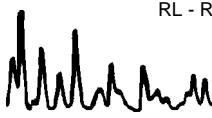
Page 2 of 2

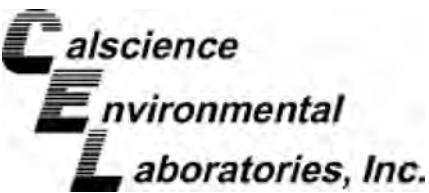
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	095-01-021-9,792	N/A	Air	GC/MS K	N/A	02/22/12 10:34	120222L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methylene Chloride	ND	5.0	1	
Carbon Tetrachloride	ND	0.50	1		Naphthalene	ND	5.0	1	
Chloroform	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
Methyl-t-Butyl Ether (MTBE)	ND	2.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	103	57-129			1,2-Dichloroethane-d4	116	47-137		
Toluene-d8	96	78-156							
Method Blank	095-01-021-9,793	N/A	Air	GC/MS K	N/A	02/21/12 16:17	120221L01		

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methylene Chloride	ND	5.0	1	
Carbon Tetrachloride	ND	0.50	1		Naphthalene	ND	5.0	1	
Chloroform	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
Methyl-t-Butyl Ether (MTBE)	ND	2.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	102	57-129			1,2-Dichloroethane-d4	103	47-137		
Toluene-d8	97	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



de maximis, inc.
1322 Scott Street, Suite 104
San Diego, CA 92106-2727

Date Received: 02/21/12
Work Order No: 12-02-1269
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: Omega

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
OC_VGAC_INF_SP241_022112	12-02-1269-1-A	02/21/12 12:05	Air	GC/MS K	N/A	02/22/12 04:20	120221L01

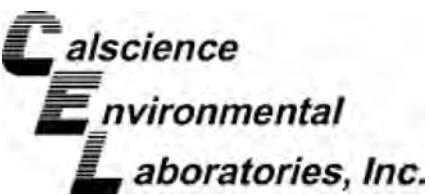
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	16	10		Methylene Chloride	ND	170	10	
Carbon Tetrachloride	ND	31	10		Naphthalene	ND	260	10	
Chloroform	290	24	10		Tetrachloroethene	9600	140	40	
1,1-Dichloroethane	ND	20	10		Trichloroethene	470	27	10	
1,2-Dichloroethane	42	20	10		1,1,2-Trichloroethane	ND	27	10	
1,4-Dichlorobenzene	ND	30	10		Vinyl Chloride	ND	13	10	
Methyl-t-Butyl Ether (MTBE)	ND	72	10						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	101	57-129			1,2-Dichloroethane-d4	111	47-137		
Toluene-d8	96	78-156							
OC_VGAC_INT_SP245_022112	12-02-1269-2-A	02/21/12 11:45	Air	GC/MS K	N/A	02/22/12 01:08	120221L01		

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.6	1		Methylene Chloride	ND	17	1	
Carbon Tetrachloride	ND	3.1	1		Naphthalene	ND	26	1	
Chloroform	11	2.4	1		Tetrachloroethene	ND	3.4	1	
1,1-Dichloroethane	2.3	2.0	1		Trichloroethene	ND	2.7	1	
1,2-Dichloroethane	ND	2.0	1		1,1,2-Trichloroethane	ND	2.7	1	
1,4-Dichlorobenzene	ND	3.0	1		Vinyl Chloride	ND	1.3	1	
Methyl-t-Butyl Ether (MTBE)	ND	7.2	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	103	57-129			1,2-Dichloroethane-d4	110	47-137		
Toluene-d8	94	78-156							
OC_VGAC_EFF_SP242_022112	12-02-1269-3-A	02/21/12 11:36	Air	GC/MS K	N/A	02/22/12 00:15	120221L01		

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.6	1		Methylene Chloride	ND	17	1	
Carbon Tetrachloride	ND	3.1	1		Naphthalene	ND	26	1	
Chloroform	ND	2.4	1		Tetrachloroethene	16	3.4	1	
1,1-Dichloroethane	ND	2.0	1		Trichloroethene	ND	2.7	1	
1,2-Dichloroethane	ND	2.0	1		1,1,2-Trichloroethane	ND	2.7	1	
1,4-Dichlorobenzene	ND	3.0	1		Vinyl Chloride	ND	1.3	1	
Methyl-t-Butyl Ether (MTBE)	ND	7.2	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	103	57-129			1,2-Dichloroethane-d4	112	47-137		
Toluene-d8	96	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



de maximis, inc.
1322 Scott Street, Suite 104
San Diego, CA 92106-2727

Date Received: 02/21/12
Work Order No: 12-02-1269
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: Omega

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	095-01-021-9,792	N/A	Air	GC/MS K	N/A	02/22/12 10:34	120222L01

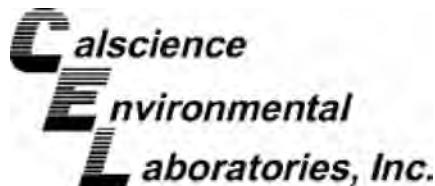
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.6	1		Methylene Chloride	ND	17	1	
Carbon Tetrachloride	ND	3.1	1		Naphthalene	ND	26	1	
Chloroform	ND	2.4	1		Tetrachloroethene	ND	3.4	1	
1,1-Dichloroethane	ND	2.0	1		Trichloroethene	ND	2.7	1	
1,2-Dichloroethane	ND	2.0	1		1,1,2-Trichloroethane	ND	2.7	1	
1,4-Dichlorobenzene	ND	3.0	1		Vinyl Chloride	ND	1.3	1	
Methyl-t-Butyl Ether (MTBE)	ND	7.2	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	103	57-129			1,2-Dichloroethane-d4	116	47-137		
Toluene-d8	96	78-156							

Method Blank	095-01-021-9,793	N/A	Air	GC/MS K	N/A	02/21/12 16:17	120221L01
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.6	1		Methylene Chloride	ND	17	1	
Carbon Tetrachloride	ND	3.1	1		Naphthalene	ND	26	1	
Chloroform	ND	2.4	1		Tetrachloroethene	ND	3.4	1	
1,1-Dichloroethane	ND	2.0	1		Trichloroethene	ND	2.7	1	
1,2-Dichloroethane	ND	2.0	1		1,1,2-Trichloroethane	ND	2.7	1	
1,4-Dichlorobenzene	ND	3.0	1		Vinyl Chloride	ND	1.3	1	
Methyl-t-Butyl Ether (MTBE)	ND	7.2	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	102	57-129			1,2-Dichloroethane-d4	103	47-137		
Toluene-d8	97	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Quality Control - LCS/LCS Duplicate



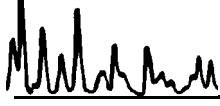
de maximis, inc.
1322 Scott Street, Suite 104
San Diego, CA 92106-2727

Date Received: N/A
Work Order No: 12-02-1269
Preparation: N/A
Method: EPA TO-15

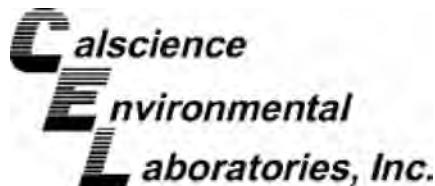
Project: Omega

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed		LCS/LCSD Batch Number	
095-01-021-9,793	Air	GC/MS K	N/A		02/21/12		120221L01	
Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Isopropylbenzene	25.00	98	97	50-150	33-167	0	0-35	
n-Propylbenzene	25.00	93	93	50-150	33-167	0	0-35	
Acetone	25.00	108	111	50-150	33-167	3	0-35	
Benzene	25.00	103	104	60-156	44-172	0	0-40	
Benzyl Chloride	25.00	115	114	50-150	33-167	1	0-35	
Bromodichloromethane	25.00	108	107	50-150	33-167	0	0-35	
Bromoform	25.00	119	118	62-134	50-146	1	0-38	
Bromomethane	25.00	114	115	50-150	33-167	1	0-35	
1,3-Butadiene	25.00	112	115	50-150	33-167	3	0-35	
2-Butanone	25.00	107	100	50-150	33-167	7	0-35	
Carbon Disulfide	25.00	124	128	50-150	33-167	4	0-35	
Carbon Tetrachloride	25.00	113	112	64-154	49-169	0	0-32	
Chlorobenzene	25.00	105	105	50-150	33-167	0	0-35	
Chloroethane	25.00	117	120	50-150	33-167	3	0-35	
Chloroform	25.00	104	104	50-150	33-167	0	0-35	
Chloromethane	25.00	116	119	50-150	33-167	3	0-35	
Cyclohexane	25.00	101	101	50-150	33-167	0	0-35	
Dibromochloromethane	25.00	113	113	50-150	33-167	0	0-35	
Dichlorodifluoromethane	25.00	111	112	50-150	33-167	1	0-35	
Diisopropyl Ether (DIPE)	25.00	94	95	50-150	33-167	1	0-35	
1,1-Dichloroethane	25.00	104	105	50-150	33-167	0	0-35	
1,1-Dichloroethene	25.00	110	111	50-150	33-167	1	0-35	
1,2-Dibromoethane	25.00	106	106	54-144	39-159	0	0-36	
Dichlorotetrafluoroethane	25.00	113	114	50-150	33-167	2	0-35	
1,2-Dichlorobenzene	25.00	106	105	34-160	13-181	1	0-47	
1,2-Dichloroethane	25.00	106	106	69-153	55-167	0	0-35	
1,2-Dichloropropane	25.00	101	102	67-157	52-172	1	0-35	
1,3-Dichlorobenzene	25.00	108	108	50-150	33-167	1	0-35	
1,4-Dichlorobenzene	25.00	107	107	36-156	16-176	0	0-47	
1,4-Dioxane	25.00	88	87	50-150	33-167	1	0-35	
c-1,3-Dichloropropene	25.00	110	110	61-157	45-173	0	0-35	
c-1,2-Dichloroethene	25.00	105	106	50-150	33-167	1	0-35	
t-1,2-Dichloroethene	25.00	101	102	50-150	33-167	0	0-35	

RPD - Relative Percent Difference , CL - Control Limit



7440 Lincoln Way, Garden Grove, CA 92841-1427 . TEL:(714) 895-5494 . FAX: (714) 894-7501



Quality Control - LCS/LCS Duplicate



de maximis, inc.
1322 Scott Street, Suite 104
San Diego, CA 92106-2727

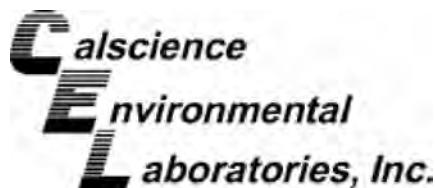
Date Received: N/A
Work Order No: 12-02-1269
Preparation: N/A
Method: EPA TO-15

Project: Omega

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed		LCS/LCSD Batch Number	
095-01-021-9,793	Air	GC/MS K	N/A		02/21/12		120221L01	
Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
t-1,3-Dichloropropene	25.00	122	122	50-150	33-167	0	0-35	
Ethanol	100.0	86	88	50-150	33-167	2	0-35	
Ethyl Acetate	25.00	108	107	50-150	33-167	0	0-35	
Ethyl-t-Butyl Ether (ETBE)	25.00	94	95	50-150	33-167	1	0-35	
Ethylbenzene	25.00	107	106	52-154	35-171	1	0-38	
4-Ethyltoluene	25.00	107	108	50-150	33-167	1	0-35	
Heptane	25.00	104	104	50-150	33-167	1	0-35	
Hexachloro-1,3-Butadiene	25.00	84	84	50-150	33-167	0	0-35	
Hexane	25.00	106	107	50-150	33-167	0	0-35	
2-Hexanone	25.00	102	103	50-150	33-167	0	0-35	
Methyl-t-Butyl Ether (MTBE)	25.00	100	100	50-150	33-167	1	0-35	
Methylene Chloride	25.00	102	129	50-150	33-167	24	0-35	
4-Methyl-2-Pentanone	25.00	105	105	50-150	33-167	0	0-35	
Naphthalene	25.00	64	64	40-190	15-215	1	0-35	
o-Xylene	25.00	106	108	52-148	36-164	1	0-38	
p/m-Xylene	50.00	108	108	42-156	23-175	0	0-41	
Propene	25.00	108	113	50-150	33-167	5	0-35	
Styrene	25.00	103	103	50-150	33-167	0	0-35	
Tert-Amyl-Methyl Ether (TAME)	25.00	90	91	50-150	33-167	0	0-35	
Tert-Butyl Alcohol (TBA)	50.00	93	98	50-150	33-167	6	0-35	
Tetrachloroethene	25.00	105	105	56-152	40-168	0	0-40	
Tetrahydrofuran	25.00	102	103	50-150	33-167	1	0-35	
Toluene	25.00	107	107	56-146	41-161	0	0-43	
Trichloroethene	25.00	105	105	63-159	47-175	0	0-34	
Trichlorofluoromethane	25.00	113	115	50-150	33-167	1	0-35	
1,1,2-Trichloro-1,2,2-Trifluoroethane	25.00	127	130	50-150	33-167	2	0-35	
1,1,1-Trichloroethane	25.00	107	107	50-150	33-167	0	0-35	
1,1,2-Trichloroethane	25.00	103	103	65-149	51-163	0	0-37	
1,2,3-Trichloropropane	25.00	96	96	50-150	33-167	0	0-35	
Acrolein	25.00	104	107	50-150	33-167	2	0-35	
Acrylonitrile	25.00	100	104	50-150	33-167	4	0-35	
Methyl Methacrylate	25.00	107	107	50-150	33-167	0	0-35	
Propane	50.00	105	109	50-150	33-167	4	0-35	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



de maximis, inc.
1322 Scott Street, Suite 104
San Diego, CA 92106-2727

Date Received: N/A
Work Order No: 12-02-1269
Preparation: N/A
Method: EPA TO-15

Project: Omega

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	LCS/LCSD Batch Number		
Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Butane	50.00	105	110	50-150	33-167	4	0-35	
Methanol	75.00	51	50	50-150	33-167	2	0-35	
2,2,4-Trimethyl Pentane	25.00	92	93	50-150	33-167	1	0-35	
Isobutane	50.00	103	106	50-150	33-167	3	0-35	
1,1,1,2-Tetrafluoroethane	25.00	100	103	50-150	33-167	3	0-35	
1,3,5-Trimethylbenzene	25.00	104	105	50-150	33-167	1	0-35	
1,1,2,2-Tetrachloroethane	25.00	105	104	50-150	33-167	0	0-35	
1,2,4-Trimethylbenzene	25.00	107	108	50-150	33-167	1	0-35	
1,2,4-Trichlorobenzene	25.00	73	75	50-150	33-167	3	0-35	
Vinyl Acetate	25.00	93	93	50-150	33-167	0	0-35	
Vinyl Chloride	25.00	112	115	45-177	23-199	3	0-36	
1,1-Difluoroethane	25.00	98	103	50-150	33-167	4	0-35	
Isopropanol	25.00	97	100	50-150	33-167	4	0-35	
2-Chlorotoluene	25.00	101	102	50-150	33-167	1	0-35	

Total number of LCS compounds : 80

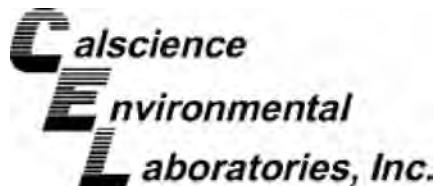
Total number of ME compounds : 0

Total number of ME compounds allowed : 4

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



de maximis, inc.
1322 Scott Street, Suite 104
San Diego, CA 92106-2727

Date Received: N/A
Work Order No: 12-02-1269
Preparation: N/A
Method: EPA TO-15

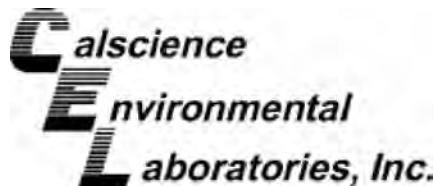
Project: Omega

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed		LCS/LCSD Batch Number	
095-01-021-9,792	Air	GC/MS K	N/A		02/22/12		120222L01	
Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Isopropylbenzene	25.00	102	97	50-150	33-167	5	0-35	
n-Propylbenzene	25.00	99	93	50-150	33-167	6	0-35	
Acetone	25.00	120	114	50-150	33-167	5	0-35	
Benzene	25.00	102	99	60-156	44-172	3	0-40	
Benzyl Chloride	25.00	120	112	50-150	33-167	7	0-35	
Bromodichloromethane	25.00	111	105	50-150	33-167	6	0-35	
Bromoform	25.00	126	122	62-134	50-146	4	0-38	
Bromomethane	25.00	126	128	50-150	33-167	1	0-35	
1,3-Butadiene	25.00	126	130	50-150	33-167	3	0-35	
2-Butanone	25.00	118	114	50-150	33-167	4	0-35	
Carbon Disulfide	25.00	130	122	50-150	33-167	6	0-35	
Carbon Tetrachloride	25.00	123	115	64-154	49-169	7	0-32	
Chlorobenzene	25.00	107	103	50-150	33-167	4	0-35	
Chloroethane	25.00	131	132	50-150	33-167	1	0-35	
Chloroform	25.00	107	102	50-150	33-167	5	0-35	
Chloromethane	25.00	134	135	50-150	33-167	1	0-35	
Cyclohexane	25.00	104	98	50-150	33-167	7	0-35	
Dibromochloromethane	25.00	121	114	50-150	33-167	5	0-35	
Dichlorodifluoromethane	25.00	125	130	50-150	33-167	3	0-35	
Diisopropyl Ether (DIPE)	25.00	99	92	50-150	33-167	7	0-35	
1,1-Dichloroethane	25.00	107	100	50-150	33-167	7	0-35	
1,1-Dichloroethene	25.00	121	117	50-150	33-167	3	0-35	
1,2-Dibromoethane	25.00	110	105	54-144	39-159	5	0-36	
Dichlorotetrafluoroethane	25.00	127	127	50-150	33-167	0	0-35	
1,2-Dichlorobenzene	25.00	114	109	34-160	13-181	4	0-47	
1,2-Dichloroethane	25.00	113	105	69-153	55-167	7	0-35	
1,2-Dichloropropane	25.00	103	97	67-157	52-172	6	0-35	
1,3-Dichlorobenzene	25.00	116	111	50-150	33-167	4	0-35	
1,4-Dichlorobenzene	25.00	115	111	36-156	16-176	4	0-47	
1,4-Dioxane	25.00	84	81	50-150	33-167	4	0-35	
c-1,3-Dichloropropene	25.00	111	106	61-157	45-173	5	0-35	
c-1,2-Dichloroethene	25.00	103	100	50-150	33-167	3	0-35	
t-1,2-Dichloroethene	25.00	100	97	50-150	33-167	3	0-35	

RPD - Relative Percent Difference , CL - Control Limit



7440 Lincoln Way, Garden Grove, CA 92841-1427 . TEL:(714) 895-5494 . FAX: (714) 894-7501



Quality Control - LCS/LCS Duplicate



de maximis, inc.
1322 Scott Street, Suite 104
San Diego, CA 92106-2727

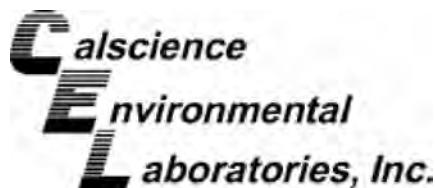
Date Received: N/A
Work Order No: 12-02-1269
Preparation: N/A
Method: EPA TO-15

Project: Omega

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed		LCS/LCSD Batch Number	
095-01-021-9,792	Air	GC/MS K	N/A		02/22/12		120222L01	
Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
t-1,3-Dichloropropene	25.00	126	119	50-150	33-167	5	0-35	
Ethanol	100.0	97	99	50-150	33-167	2	0-35	
Ethyl Acetate	25.00	106	103	50-150	33-167	2	0-35	
Ethyl-t-Butyl Ether (ETBE)	25.00	94	88	50-150	33-167	6	0-35	
Ethylbenzene	25.00	109	103	52-154	35-171	5	0-38	
4-Ethyltoluene	25.00	114	109	50-150	33-167	5	0-35	
Heptane	25.00	104	101	50-150	33-167	2	0-35	
Hexachloro-1,3-Butadiene	25.00	93	89	50-150	33-167	5	0-35	
Hexane	25.00	110	104	50-150	33-167	6	0-35	
2-Hexanone	25.00	107	98	50-150	33-167	9	0-35	
Methyl-t-Butyl Ether (MTBE)	25.00	100	95	50-150	33-167	4	0-35	
Methylene Chloride	25.00	114	108	50-150	33-167	5	0-35	
4-Methyl-2-Pentanone	25.00	108	101	50-150	33-167	7	0-35	
Naphthalene	25.00	71	67	40-190	15-215	5	0-35	
o-Xylene	25.00	113	106	52-148	36-164	6	0-38	
p/m-Xylene	50.00	112	106	42-156	23-175	5	0-41	
Propene	25.00	125	129	50-150	33-167	3	0-35	
Styrene	25.00	105	101	50-150	33-167	4	0-35	
Tert-Amyl-Methyl Ether (TAME)	25.00	87	84	50-150	33-167	4	0-35	
Tert-Butyl Alcohol (TBA)	50.00	98	95	50-150	33-167	3	0-35	
Tetrachloroethene	25.00	109	106	56-152	40-168	3	0-40	
Tetrahydrofuran	25.00	109	100	50-150	33-167	9	0-35	
Toluene	25.00	109	104	56-146	41-161	4	0-43	
Trichloroethene	25.00	107	103	63-159	47-175	3	0-34	
Trichlorofluoromethane	25.00	128	125	50-150	33-167	3	0-35	
1,1,2-Trichloro-1,2,2-Trifluoroethane	25.00	134	128	50-150	33-167	5	0-35	
1,1,1-Trichloroethane	25.00	112	106	50-150	33-167	5	0-35	
1,1,2-Trichloroethane	25.00	103	99	65-149	51-163	4	0-37	
1,2,3-Trichloropropane	25.00	102	95	50-150	33-167	7	0-35	
Acrolein	25.00	115	112	50-150	33-167	3	0-35	
Acrylonitrile	25.00	111	105	50-150	33-167	6	0-35	
Methyl Methacrylate	25.00	107	102	50-150	33-167	4	0-35	
Propane	50.00	116	126	50-150	33-167	8	0-35	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



de maximis, inc.
1322 Scott Street, Suite 104
San Diego, CA 92106-2727

Date Received: N/A
Work Order No: 12-02-1269
Preparation: N/A
Method: EPA TO-15

Project: Omega

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	LCS/LCSD Batch Number		
Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Butane	50.00	119	121	50-150	33-167	2	0-35	
Methanol	75.00	55	56	50-150	33-167	2	0-35	
2,2,4-Trimethyl Pentane	25.00	96	90	50-150	33-167	7	0-35	
Isobutane	50.00	117	118	50-150	33-167	1	0-35	
1,1,1,2-Tetrafluoroethane	25.00	110	112	50-150	33-167	2	0-35	
1,3,5-Trimethylbenzene	25.00	112	106	50-150	33-167	5	0-35	
1,1,2,2-Tetrachloroethane	25.00	109	102	50-150	33-167	6	0-35	
1,2,4-Trimethylbenzene	25.00	115	109	50-150	33-167	5	0-35	
1,2,4-Trichlorobenzene	25.00	84	79	50-150	33-167	5	0-35	
Vinyl Acetate	25.00	99	90	50-150	33-167	10	0-35	
Vinyl Chloride	25.00	126	129	45-177	23-199	2	0-36	
1,1-Difluoroethane	25.00	114	117	50-150	33-167	3	0-35	
Isopropanol	25.00	106	101	50-150	33-167	5	0-35	
2-Chlorotoluene	25.00	108	101	50-150	33-167	6	0-35	

Total number of LCS compounds : 80

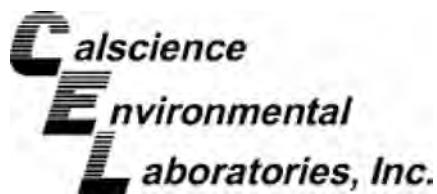
Total number of ME compounds : 0

Total number of ME compounds allowed : 4

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



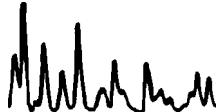


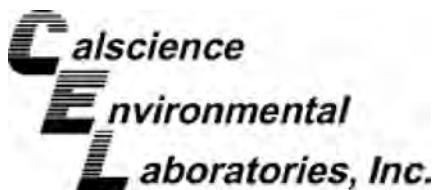
Summa Canister Vacuum Summary



Work Order Number: **12-02-1269**

Sample Name	Vacuum In	Vacuum Out	Equipment	Description
OC_VGAC_INF_SP241_022112	-2.00	-29.80	LC228	Summa Canister 1L
OC_VGAC_INT_SP245_022112	-6.50	-29.80	LC183	Summa Canister 1L
OC_VGAC_EFF_SP242_022112	-2.50	-29.80	LC092	Summa Canister 1L





Glossary of Terms and Qualifiers



Work Order Number: 12-02-1269

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	MPN - Most Probable Number

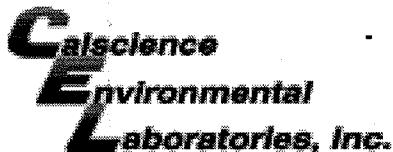


AIR CHAIN OF CUSTODY RECORD

DATE: 02/21/12
 PAGE: 1 OF 1

LABORATORY CLIENT: de maximis	CLIENT PROJECT NAME / NUMBER: Omega	P.O. NO.:								
ADDRESS: 1322 Scott St., Suite 104	PROJECT ADDRESS: 12520 Whittier Blvd.	LAB CONTACT OR QUOTE NO.:								
CITY: San Diego	CITY: Whittier	STATE: CA ZIP: 90602								
TEL: (310) 926-5368	PROJECT CONTACT: Andrew Miller - amiller@iacobandhefner.com	LAB USE ONLY								
TURNAROUND TIME: <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input type="checkbox"/> 5 DAYS <input checked="" type="checkbox"/> 10 DAYS	SAMPLER(S): NAME / SIGNATURE: Andrew Miller	TO-15 Select Compounds								
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) <input checked="" type="checkbox"/> EDD										
SPECIAL INSTRUCTIONS: 1 - Select compounds: Benzene, Carbon tetrachloride, Chloroform, p-Dichlorobenzene, 1,1-Dichloroethane, Ethylene dichloride, Methyl tert-butyl ether, Methylene chloride, Naphthalene, Perchloroethylene, 1,1,2-Trichloroethane, Trichloroethylene, Vinyl chloride										
REQUESTED ANALYSES										
LAB USE ONLY SAMPLE ID	FIELD ID / Point of Collection	Sampling Equipment Info			Start Sampling Information			Stop Sampling Information		
		Air Type (I) Indoor (S) Soil Vap. (A) Ambient	Canister ID#	Flow Controller ID#	Date	Time (24hr clock)	Canister Pressure (⁰ Hg)	Date	Time (24hr clock)	Canister Pressure (⁰ Hg)
1 OC_VGAC_INF_SP241_022112	SP241	UC 228	1L A380	2/21/2012	12:00	-30	2/21/2012	12:05	-2	
2 OC_VGAC_INT_SP245_022112	SP245	UC 183	1L A303	2/21/2012	11:38	-30	2/21/2012	11:45	-6	
3 OC_VGAC_EFF_SP242_022112	SP242	UC 012	1L A069	2/21/2012	11:30	-30	2/21/2012	11:36	-2	
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
Relinquished by: (Signature)	Received by: (Signature)	Date: 2/21/12	Time: 13:50	Relinquished by: (Signature)	Received by: (Signature)	Date: 2/21/12	Time: 13:50			
Relinquished by: (Signature)	Received by: (Signature)	Date: 2/21/12	Time: 17:58	Relinquished by: (Signature)	Received by: (Signature)	Date: 2/21/12	Time: 17:58			

Page 16 of 17
 12/01/11 Revision



WORK ORDER #: 12-02-1269

SAMPLE RECEIPT FORM

Cooler 0 of 0

CLIENT: DE MAXIMIS

DATE: 02/21/12

TEMPERATURE: Thermometer ID: SC3 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature _____ °C - 0.3 °C (CF) = _____ °C Blank Sample Sample(s) outside temperature criteria (PM/APM contacted by: _____). Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling. Received at ambient temperature, placed on ice for transport by Courier.Ambient Temperature: Air FilterInitial: DE

CUSTODY SEALS INTACT:

<input type="checkbox"/> Cooler	<input type="checkbox"/>	<input type="checkbox"/> No (Not Intact)	<input type="checkbox"/> Not Present	<input checked="" type="checkbox"/> N/A	Initial: <u>DE</u>
<input type="checkbox"/> Sample	<input type="checkbox"/>	<input type="checkbox"/> No (Not Intact)	<input checked="" type="checkbox"/> Not Present	<input type="checkbox"/>	Initial: <u>NS</u>

SAMPLE CONDITION:

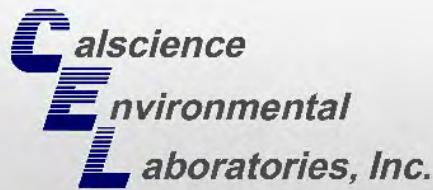
	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours...	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (_____) EnCores® TerraCores® _____Water: VOA VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs 500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 1PBna 500PB 250PB 250PBn 125PB 125PBznna 100PJ 100PJna₂ _____ _____Air: Tedlar® Summa® Other: _____ Trip Blank Lot#: _____ Labeled/Checked by: NSContainer: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: DEPreservative: H: HCl N: HNO₃ Na₂:Na₂S₂O₃ Na: NaOH P: H₃PO₄ S: H₂SO₄ U: Ultra-pure znna: ZnAc₂+NaOH F: Filtered Scanned by: DE

Appendix B.2.3

**March 28, 2012
Vapor Analytical Results**



CALSCIENCE

WORK ORDER NUMBER: 12-03-2048

The difference is service



AIR SOIL WATER MARINE CHEMISTRY

Analytical Report For

Client: de maximis, inc.

Client Project Name: Omega

Attention: Jaime Dinello

1322 Scott Street, Suite 104
San Diego, CA 92106-2727

Approved for release on 04/11/2012 by:
Stephen Nowak
Project Manager

[ResultLink ▶](#)

[Email your PM ▶](#)



Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.



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NELAP ID: 03220CA | DoD-ELAP ID: L10-41 | CSDLAC ID: 10109 | SCAQMD ID: 93LA0830

Client: de maximis, inc.
 1322 Scott Street, Suite 104
 San Diego, CA 92106-2727
 Attn: Jaime Dinello

Work Order: 12-03-2048
 Project Name: Omega
 Received: 03/30/12 17:10

DETECTIONS SUMMARY

Client Sample ID

Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
OC_VGAC_INF_SP241_032812						
Chloroform	58		2.5	ppb (v/v)	EPA TO-15	N/A
1,1-Dichloroethane	3.6		2.5	ppb (v/v)	EPA TO-15	N/A
1,2-Dichloroethane	10		2.5	ppb (v/v)	EPA TO-15	N/A
Tetrachloroethene	1700		20	ppb (v/v)	EPA TO-15	N/A
Trichloroethene	85		2.5	ppb (v/v)	EPA TO-15	N/A
OC_VGAC_INT_SP245_032812						
Chloroform	9.1		0.50	ppb (v/v)	EPA TO-15	N/A
1,1-Dichloroethane	1.5		0.50	ppb (v/v)	EPA TO-15	N/A
Tetrachloroethene	2.0		0.50	ppb (v/v)	EPA TO-15	N/A
OC_VGAC_EFF_SP242_032812						
Tetrachloroethene	6.9		0.50	ppb (v/v)	EPA TO-15	N/A

Subcontracted analyses, if any, are not included in this summary.

*MDL is shown.



Client: de maximis, inc.
 1322 Scott Street, Suite 104
 San Diego, CA 92106-2727
 Attn: Jaime Dinello

Work Order: 12-03-2048
 Project Name: Omega
 Received: 03/30/12 17:10

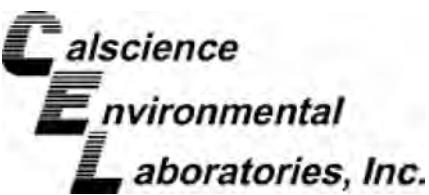
DETECTIONS SUMMARY

Client Sample ID

Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
OC_VGAC_INF_SP241_032812						
Chloroform	280		12	ug/m3	EPA TO-15	N/A
1,1-Dichloroethane	15		10	ug/m3	EPA TO-15	N/A
1,2-Dichloroethane	42		10	ug/m3	EPA TO-15	N/A
Tetrachloroethene	11000		140	ug/m3	EPA TO-15	N/A
Trichloroethene	460		13	ug/m3	EPA TO-15	N/A
OC_VGAC_INT_SP245_032812						
Chloroform	44		2.4	ug/m3	EPA TO-15	N/A
1,1-Dichloroethane	6.0		2.0	ug/m3	EPA TO-15	N/A
Tetrachloroethene	14		3.4	ug/m3	EPA TO-15	N/A
OC_VGAC_EFF_SP242_032812						
Tetrachloroethene	47		3.4	ug/m3	EPA TO-15	N/A

Subcontracted analyses, if any, are not included in this summary.

*MDL is shown.



Analytical Report



de maximis, inc.
1322 Scott Street, Suite 104
San Diego, CA 92106-2727

Date Received: 03/30/12
Work Order No: 12-03-2048
Preparation: N/A
Method: EPA TO-15
Units: ppb (v/v)

Project: Omega

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
OC_VGAC_INF_SP241_032812	12-03-2048-1-A	03/28/12 13:43	Air	GC/MS HH	N/A	03/31/12 06:21	120330L01

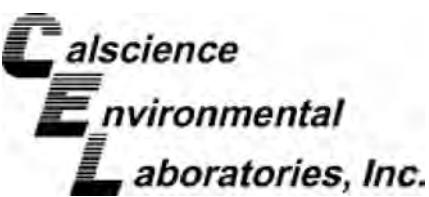
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	2.5	5		Methylene Chloride	ND	25	5	
Carbon Tetrachloride	ND	2.5	5		Naphthalene	ND	25	5	
Chloroform	58	2.5	5		Tetrachloroethene	1700	20	40	
1,1-Dichloroethane	3.6	2.5	5		Trichloroethene	85	2.5	5	
1,2-Dichloroethane	10	2.5	5		1,1,2-Trichloroethane	ND	2.5	5	
1,4-Dichlorobenzene	ND	2.5	5		Vinyl Chloride	ND	2.5	5	
Methyl-t-Butyl Ether (MTBE)	ND	10	5						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	101	57-129			1,2-Dichloroethane-d4	98	47-137		
Toluene-d8	99	78-156							
OC_VGAC_INT_SP245_032812	12-03-2048-2-A	03/28/12 13:41	Air	GC/MS HH	N/A	03/31/12 05:34	120330L01		

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methylene Chloride	ND	5.0	1	
Carbon Tetrachloride	ND	0.50	1		Naphthalene	ND	5.0	1	
Chloroform	9.1	0.50	1		Tetrachloroethene	2.0	0.50	1	
1,1-Dichloroethane	1.5	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
Methyl-t-Butyl Ether (MTBE)	ND	2.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	98	57-129			1,2-Dichloroethane-d4	97	47-137		
Toluene-d8	98	78-156							
OC_VGAC_EFF_SP242_032812	12-03-2048-3-A	03/28/12 13:39	Air	GC/MS HH	N/A	03/31/12 04:42	120330L01		

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methylene Chloride	ND	5.0	1	
Carbon Tetrachloride	ND	0.50	1		Naphthalene	ND	5.0	1	
Chloroform	ND	0.50	1		Tetrachloroethene	6.9	0.50	1	
1,1-Dichloroethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
Methyl-t-Butyl Ether (MTBE)	ND	2.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	95	57-129			1,2-Dichloroethane-d4	98	47-137		
Toluene-d8	97	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



de maximis, inc.
1322 Scott Street, Suite 104
San Diego, CA 92106-2727

Date Received: 03/30/12
Work Order No: 12-03-2048
Preparation: N/A
Method: EPA TO-15
Units: ppb (v/v)

Project: Omega

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	095-01-021-9,923	N/A	Air	GC/MS HH	N/A	03/30/12 16:04	120330L01

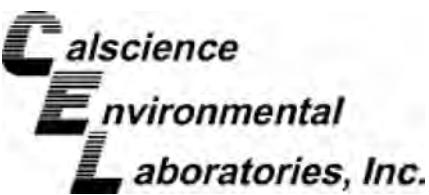
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methylene Chloride	ND	5.0	1	
Carbon Tetrachloride	ND	0.50	1		Naphthalene	ND	5.0	1	
Chloroform	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
Methyl-t-Butyl Ether (MTBE)	ND	2.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	99	57-129			1,2-Dichloroethane-d4	98	47-137		
Toluene-d8	97	78-156							

Method Blank	095-01-021-9,925	N/A	Air	GC/MS HH	N/A	03/31/12 13:48	120331L01
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methylene Chloride	ND	5.0	1	
Carbon Tetrachloride	ND	0.50	1		Naphthalene	ND	5.0	1	
Chloroform	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		1,1,2-Trichloroethane	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		Vinyl Chloride	ND	0.50	1	
Methyl-t-Butyl Ether (MTBE)	ND	2.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	96	57-129			1,2-Dichloroethane-d4	97	47-137		
Toluene-d8	97	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



de maximis, inc.
1322 Scott Street, Suite 104
San Diego, CA 92106-2727

Date Received: 03/30/12
Work Order No: 12-03-2048
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: Omega

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
OC_VGAC_INF_SP241_032812	12-03-2048-1-A	03/28/12 13:43	Air	GC/MS HH	N/A	03/31/12 06:21	120330L01

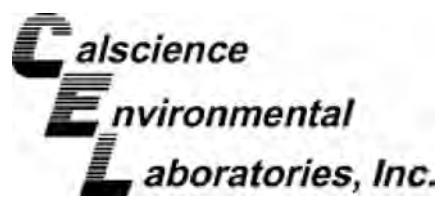
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	8.0	5		Methylene Chloride	ND	87	5	
Carbon Tetrachloride	ND	16	5		Naphthalene	ND	130	5	
Chloroform	280	12	5		Tetrachloroethene	11000	140	40	
1,1-Dichloroethane	15	10	5		Trichloroethene	460	13	5	
1,2-Dichloroethane	42	10	5		1,1,2-Trichloroethane	ND	14	5	
1,4-Dichlorobenzene	ND	15	5		Vinyl Chloride	ND	6.4	5	
Methyl-t-Butyl Ether (MTBE)	ND	36	5						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	101	57-129			1,2-Dichloroethane-d4	98	47-137		
Toluene-d8	99	78-156							
OC_VGAC_INT_SP245_032812	12-03-2048-2-A	03/28/12 13:41	Air	GC/MS HH	N/A	03/31/12 05:34	120330L01		

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.6	1		Methylene Chloride	ND	17	1	
Carbon Tetrachloride	ND	3.1	1		Naphthalene	ND	26	1	
Chloroform	44	2.4	1		Tetrachloroethene	14	3.4	1	
1,1-Dichloroethane	6.0	2.0	1		Trichloroethene	ND	2.7	1	
1,2-Dichloroethane	ND	2.0	1		1,1,2-Trichloroethane	ND	2.7	1	
1,4-Dichlorobenzene	ND	3.0	1		Vinyl Chloride	ND	1.3	1	
Methyl-t-Butyl Ether (MTBE)	ND	7.2	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	98	57-129			1,2-Dichloroethane-d4	97	47-137		
Toluene-d8	98	78-156							
OC_VGAC_EFF_SP242_032812	12-03-2048-3-A	03/28/12 13:39	Air	GC/MS HH	N/A	03/31/12 04:42	120330L01		

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.6	1		Methylene Chloride	ND	17	1	
Carbon Tetrachloride	ND	3.1	1		Naphthalene	ND	26	1	
Chloroform	ND	2.4	1		Tetrachloroethene	47	3.4	1	
1,1-Dichloroethane	ND	2.0	1		Trichloroethene	ND	2.7	1	
1,2-Dichloroethane	ND	2.0	1		1,1,2-Trichloroethane	ND	2.7	1	
1,4-Dichlorobenzene	ND	3.0	1		Vinyl Chloride	ND	1.3	1	
Methyl-t-Butyl Ether (MTBE)	ND	7.2	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	95	57-129			1,2-Dichloroethane-d4	98	47-137		
Toluene-d8	97	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



de maximis, inc.
1322 Scott Street, Suite 104
San Diego, CA 92106-2727

Date Received: 03/30/12
Work Order No: 12-03-2048
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: Omega

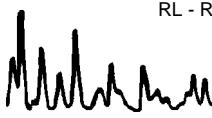
Page 2 of 2

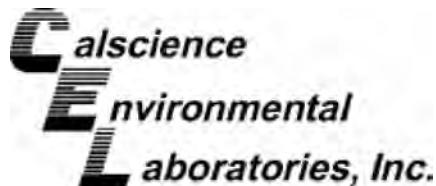
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	095-01-021-9,923	N/A	Air	GC/MS HH	N/A	03/30/12 16:04	120330L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.6	1		Methylene Chloride	ND	17	1	
Carbon Tetrachloride	ND	3.1	1		Naphthalene	ND	26	1	
Chloroform	ND	2.4	1		Tetrachloroethene	ND	3.4	1	
1,1-Dichloroethane	ND	2.0	1		Trichloroethene	ND	2.7	1	
1,2-Dichloroethane	ND	2.0	1		1,1,2-Trichloroethane	ND	2.7	1	
1,4-Dichlorobenzene	ND	3.0	1		Vinyl Chloride	ND	1.3	1	
Methyl-t-Butyl Ether (MTBE)	ND	7.2	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	99	57-129			1,2-Dichloroethane-d4	98	47-137		
Toluene-d8	97	78-156							
Method Blank	095-01-021-9,925	N/A	Air	GC/MS HH	N/A	03/31/12 13:48	120331L01		

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.6	1		Methylene Chloride	ND	17	1	
Carbon Tetrachloride	ND	3.1	1		Naphthalene	ND	26	1	
Chloroform	ND	2.4	1		Tetrachloroethene	ND	3.4	1	
1,1-Dichloroethane	ND	2.0	1		Trichloroethene	ND	2.7	1	
1,2-Dichloroethane	ND	2.0	1		1,1,2-Trichloroethane	ND	2.7	1	
1,4-Dichlorobenzene	ND	3.0	1		Vinyl Chloride	ND	1.3	1	
Methyl-t-Butyl Ether (MTBE)	ND	7.2	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	96	57-129			1,2-Dichloroethane-d4	97	47-137		
Toluene-d8	97	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Quality Control - LCS/LCS Duplicate



de maximis, inc.
1322 Scott Street, Suite 104
San Diego, CA 92106-2727

Date Received: N/A
Work Order No: 12-03-2048
Preparation: N/A
Method: EPA TO-15

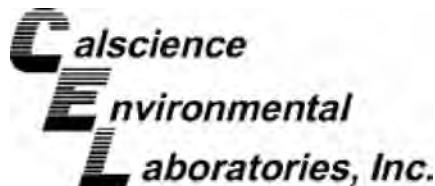
Project: Omega

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed		LCS/LCSD Batch Number	
095-01-021-9,923	Air	GC/MS HH	N/A		03/30/12		120330L01	
Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Isopropylbenzene	25.00	104	96	50-150	33-167	8	0-35	
n-Propylbenzene	25.00	98	90	50-150	33-167	9	0-35	
Acetone	25.00	90	87	50-150	33-167	4	0-35	
Benzene	25.00	106	104	60-156	44-172	2	0-40	
Benzyl Chloride	25.00	104	92	50-150	33-167	12	0-35	
Bromodichloromethane	25.00	108	105	50-150	33-167	3	0-35	
Bromoform	25.00	117	106	62-134	50-146	10	0-38	
Bromomethane	25.00	111	98	50-150	33-167	13	0-35	
1,3-Butadiene	25.00	113	102	50-150	33-167	11	0-35	
2-Butanone	25.00	105	103	50-150	33-167	2	0-35	
Carbon Disulfide	25.00	103	102	50-150	33-167	1	0-35	
Carbon Tetrachloride	25.00	107	104	64-154	49-169	3	0-32	
Chlorobenzene	25.00	111	104	50-150	33-167	7	0-35	
Chloroethane	25.00	112	101	50-150	33-167	11	0-35	
Chloroform	25.00	104	102	50-150	33-167	2	0-35	
Chloromethane	25.00	111	101	50-150	33-167	10	0-35	
Cyclohexane	25.00	107	105	50-150	33-167	2	0-35	
Dibromochloromethane	25.00	117	109	50-150	33-167	7	0-35	
Dichlorodifluoromethane	25.00	110	102	50-150	33-167	7	0-35	
Diisopropyl Ether (DIPE)	25.00	93	92	50-150	33-167	1	0-35	
1,1-Dichloroethane	25.00	104	103	50-150	33-167	1	0-35	
1,1-Dichloroethene	25.00	107	105	50-150	33-167	2	0-35	
1,2-Dibromoethane	25.00	114	107	54-144	39-159	7	0-36	
Dichlorotetrafluoroethane	25.00	112	100	50-150	33-167	11	0-35	
1,2-Dichlorobenzene	25.00	90	83	34-160	13-181	9	0-47	
1,2-Dichloroethane	25.00	103	100	69-153	55-167	3	0-35	
1,2-Dichloropropane	25.00	107	104	67-157	52-172	3	0-35	
1,3-Dichlorobenzene	25.00	96	87	50-150	33-167	10	0-35	
1,4-Dichlorobenzene	25.00	93	84	36-156	16-176	10	0-47	
1,4-Dioxane	25.00	101	98	50-150	33-167	4	0-35	
c-1,3-Dichloropropene	25.00	109	107	61-157	45-173	2	0-35	
c-1,2-Dichloroethene	25.00	104	103	50-150	33-167	1	0-35	
t-1,2-Dichloroethene	25.00	104	104	50-150	33-167	0	0-35	

RPD - Relative Percent Difference , CL - Control Limit



7440 Lincoln Way, Garden Grove, CA 92841-1427 . TEL:(714) 895-5494 . FAX: (714) 894-7501



Quality Control - LCS/LCS Duplicate



de maximis, inc.
1322 Scott Street, Suite 104
San Diego, CA 92106-2727

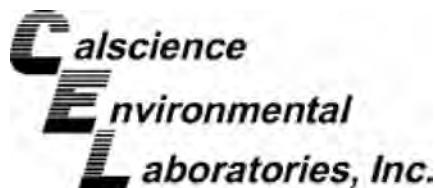
Date Received: N/A
Work Order No: 12-03-2048
Preparation: N/A
Method: EPA TO-15

Project: Omega

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed		LCS/LCSD Batch Number	
Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
t-1,3-Dichloropropene	25.00	112	108	50-150	33-167	4	0-35	
Ethanol	100.0	107	102	50-150	33-167	4	0-35	
Ethyl Acetate	25.00	110	107	50-150	33-167	3	0-35	
Ethyl-t-Butyl Ether (ETBE)	25.00	106	104	50-150	33-167	1	0-35	
Ethylbenzene	25.00	113	105	52-154	35-171	7	0-38	
4-Ethyltoluene	25.00	98	90	50-150	33-167	9	0-35	
Heptane	25.00	106	106	50-150	33-167	0	0-35	
Hexachloro-1,3-Butadiene	25.00	106	102	50-150	33-167	4	0-35	
Hexane	25.00	100	100	50-150	33-167	1	0-35	
2-Hexanone	25.00	109	102	50-150	33-167	7	0-35	
Methyl-t-Butyl Ether (MTBE)	25.00	104	104	50-150	33-167	0	0-35	
Methylene Chloride	25.00	97	96	50-150	33-167	1	0-35	
4-Methyl-2-Pentanone	25.00	105	101	50-150	33-167	3	0-35	
Naphthalene	25.00	103	99	40-190	15-215	4	0-35	
o-Xylene	25.00	111	102	52-148	36-164	8	0-38	
p/m-Xylene	50.00	116	107	42-156	23-175	8	0-41	
Propene	25.00	120	117	50-150	33-167	2	0-35	
Styrene	25.00	108	100	50-150	33-167	8	0-35	
Tert-Amyl-Methyl Ether (TAME)	25.00	106	105	50-150	33-167	1	0-35	
Tert-Butyl Alcohol (TBA)	50.00	107	106	50-150	33-167	1	0-35	
Tetrachloroethene	25.00	117	110	56-152	40-168	6	0-40	
Tetrahydrofuran	25.00	108	105	50-150	33-167	2	0-35	
Toluene	25.00	112	105	56-146	41-161	6	0-43	
Trichloroethene	25.00	108	105	63-159	47-175	3	0-34	
Trichlorofluoromethane	25.00	87	87	50-150	33-167	1	0-35	
1,1,2-Trichloro-1,2,2-Trifluoroethane	25.00	106	104	50-150	33-167	1	0-35	
1,1,1-Trichloroethane	25.00	105	102	50-150	33-167	2	0-35	
1,1,2-Trichloroethane	25.00	108	103	65-149	51-163	5	0-37	
1,2,3-Trichloropropane	25.00	102	94	50-150	33-167	9	0-35	
Acrolein	25.00	106	103	50-150	33-167	2	0-35	
Acrylonitrile	25.00	70	124	50-150	33-167	56	0-35	X
Methyl Methacrylate	25.00	109	106	50-150	33-167	3	0-35	
Propane	50.00	122	119	50-150	33-167	2	0-35	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



de maximis, inc.
1322 Scott Street, Suite 104
San Diego, CA 92106-2727

Date Received: N/A
Work Order No: 12-03-2048
Preparation: N/A
Method: EPA TO-15

Project: Omega

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	LCS/LCSD Batch Number		
Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Butane	50.00	108	102	50-150	33-167	6	0-35	
Methanol	75.00	97	93	50-150	33-167	4	0-35	
2,2,4-Trimethyl Pentane	25.00	105	104	50-150	33-167	1	0-35	
Isobutane	50.00	108	104	50-150	33-167	3	0-35	
1,1,1,2-Tetrafluoroethane	25.00	105	103	50-150	33-167	1	0-35	
1,3,5-Trimethylbenzene	25.00	98	90	50-150	33-167	8	0-35	
1,1,2,2-Tetrachloroethane	25.00	103	95	50-150	33-167	8	0-35	
1,2,4-Trimethylbenzene	25.00	97	89	50-150	33-167	9	0-35	
1,2,4-Trichlorobenzene	25.00	110	106	50-150	33-167	4	0-35	
Vinyl Acetate	25.00	106	104	50-150	33-167	2	0-35	
Vinyl Chloride	25.00	115	103	45-177	23-199	12	0-36	
1,1-Difluoroethane	25.00	105	103	50-150	33-167	2	0-35	
Isopropanol	25.00	84	109	50-150	33-167	26	0-35	
2-Chlorotoluene	25.00	104	95	50-150	33-167	9	0-35	

Total number of LCS compounds : 80

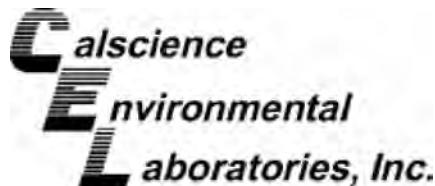
Total number of ME compounds : 0

Total number of ME compounds allowed : 4

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



de maximis, inc.
1322 Scott Street, Suite 104
San Diego, CA 92106-2727

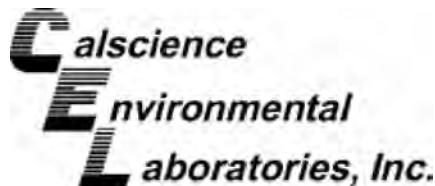
Date Received: N/A
Work Order No: 12-03-2048
Preparation: N/A
Method: EPA TO-15

Project: Omega

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed		LCS/LCSD Batch Number	
Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Isopropylbenzene	25.00	102	102	50-150	33-167	1	0-35	
n-Propylbenzene	25.00	94	94	50-150	33-167	0	0-35	
Acetone	25.00	90	92	50-150	33-167	2	0-35	
Benzene	25.00	111	112	60-156	44-172	1	0-40	
Benzyl Chloride	25.00	82	83	50-150	33-167	1	0-35	
Bromodichloromethane	25.00	110	110	50-150	33-167	1	0-35	
Bromoform	25.00	105	106	62-134	50-146	1	0-38	
Bromomethane	25.00	108	101	50-150	33-167	7	0-35	
1,3-Butadiene	25.00	111	104	50-150	33-167	6	0-35	
2-Butanone	25.00	112	113	50-150	33-167	1	0-35	
Carbon Disulfide	25.00	108	110	50-150	33-167	1	0-35	
Carbon Tetrachloride	25.00	106	107	64-154	49-169	1	0-32	
Chlorobenzene	25.00	109	110	50-150	33-167	1	0-35	
Chloroethane	25.00	109	105	50-150	33-167	3	0-35	
Chloroform	25.00	110	110	50-150	33-167	1	0-35	
Chloromethane	25.00	113	107	50-150	33-167	6	0-35	
Cyclohexane	25.00	112	113	50-150	33-167	1	0-35	
Dibromochloromethane	25.00	108	110	50-150	33-167	1	0-35	
Dichlorodifluoromethane	25.00	112	104	50-150	33-167	8	0-35	
Diisopropyl Ether (DIPE)	25.00	99	100	50-150	33-167	1	0-35	
1,1-Dichloroethane	25.00	111	112	50-150	33-167	1	0-35	
1,1-Dichloroethene	25.00	111	113	50-150	33-167	1	0-35	
1,2-Dibromoethane	25.00	111	112	54-144	39-159	1	0-36	
Dichlorotetrafluoroethane	25.00	109	101	50-150	33-167	8	0-35	
1,2-Dichlorobenzene	25.00	85	84	34-160	13-181	0	0-47	
1,2-Dichloroethane	25.00	109	110	69-153	55-167	1	0-35	
1,2-Dichloropropane	25.00	111	112	67-157	52-172	2	0-35	
1,3-Dichlorobenzene	25.00	89	90	50-150	33-167	1	0-35	
1,4-Dichlorobenzene	25.00	88	88	36-156	16-176	0	0-47	
1,4-Dioxane	25.00	107	111	50-150	33-167	3	0-35	
c-1,3-Dichloropropene	25.00	112	114	61-157	45-173	1	0-35	
c-1,2-Dichloroethene	25.00	113	114	50-150	33-167	0	0-35	
t-1,2-Dichloroethene	25.00	113	114	50-150	33-167	1	0-35	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



de maximis, inc.
1322 Scott Street, Suite 104
San Diego, CA 92106-2727

Date Received: N/A
Work Order No: 12-03-2048
Preparation: N/A
Method: EPA TO-15

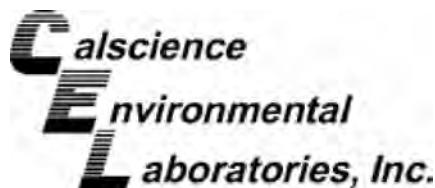
Project: Omega

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed		LCS/LCSD Batch Number	
095-01-021-9,925	Air	GC/MS HH	N/A		03/31/12		120331L01	
Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
t-1,3-Dichloropropene	25.00	113	113	50-150	33-167	1	0-35	
Ethanol	100.0	110	111	50-150	33-167	1	0-35	
Ethyl Acetate	25.00	115	116	50-150	33-167	1	0-35	
Ethyl-t-Butyl Ether (ETBE)	25.00	113	114	50-150	33-167	1	0-35	
Ethylbenzene	25.00	111	111	52-154	35-171	1	0-38	
4-Ethyltoluene	25.00	95	94	50-150	33-167	1	0-35	
Heptane	25.00	112	113	50-150	33-167	1	0-35	
Hexachloro-1,3-Butadiene	25.00	100	102	50-150	33-167	2	0-35	
Hexane	25.00	106	107	50-150	33-167	1	0-35	
2-Hexanone	25.00	102	105	50-150	33-167	2	0-35	
Methyl-t-Butyl Ether (MTBE)	25.00	112	114	50-150	33-167	1	0-35	
Methylene Chloride	25.00	104	106	50-150	33-167	2	0-35	
4-Methyl-2-Pentanone	25.00	109	110	50-150	33-167	1	0-35	
Naphthalene	25.00	99	101	40-190	15-215	2	0-35	
o-Xylene	25.00	108	108	52-148	36-164	0	0-38	
p/m-Xylene	50.00	110	111	42-156	23-175	1	0-41	
Propene	25.00	70	128	50-150	33-167	59	0-35	X
Styrene	25.00	108	108	50-150	33-167	0	0-35	
Tert-Amyl-Methyl Ether (TAME)	25.00	111	113	50-150	33-167	2	0-35	
Tert-Butyl Alcohol (TBA)	50.00	112	115	50-150	33-167	2	0-35	
Tetrachloroethene	25.00	112	114	56-152	40-168	2	0-40	
Tetrahydrofuran	25.00	114	115	50-150	33-167	1	0-35	
Toluene	25.00	108	109	56-146	41-161	1	0-43	
Trichloroethene	25.00	111	112	63-159	47-175	1	0-34	
Trichlorofluoromethane	25.00	87	88	50-150	33-167	1	0-35	
1,1,2-Trichloro-1,2,2-Trifluoroethane	25.00	111	112	50-150	33-167	2	0-35	
1,1,1-Trichloroethane	25.00	109	110	50-150	33-167	1	0-35	
1,1,2-Trichloroethane	25.00	112	114	65-149	51-163	1	0-37	
1,2,3-Trichloropropane	25.00	99	99	50-150	33-167	0	0-35	
Acrolein	25.00	107	108	50-150	33-167	0	0-35	
Acrylonitrile	25.00	111	136	50-150	33-167	20	0-35	
Methyl Methacrylate	25.00	114	115	50-150	33-167	1	0-35	
Propane	50.00	78	130	50-150	33-167	50	0-35	X

RPD - Relative Percent Difference , CL - Control Limit



7440 Lincoln Way, Garden Grove, CA 92841-1427 . TEL:(714) 895-5494 . FAX: (714) 894-7501



Quality Control - LCS/LCS Duplicate



de maximis, inc.
1322 Scott Street, Suite 104
San Diego, CA 92106-2727

Date Received: N/A
Work Order No: 12-03-2048
Preparation: N/A
Method: EPA TO-15

Project: Omega

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	LCS/LCSD Batch Number		
Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Butane	50.00	109	107	50-150	33-167	2	0-35	
Methanol	75.00	104	116	50-150	33-167	11	0-35	
2,2,4-Trimethyl Pentane	25.00	109	110	50-150	33-167	1	0-35	
Isobutane	50.00	113	111	50-150	33-167	2	0-35	
1,1,1,2-Tetrafluoroethane	25.00	111	112	50-150	33-167	1	0-35	
1,3,5-Trimethylbenzene	25.00	94	94	50-150	33-167	0	0-35	
1,1,2,2-Tetrachloroethane	25.00	98	98	50-150	33-167	1	0-35	
1,2,4-Trimethylbenzene	25.00	91	91	50-150	33-167	0	0-35	
1,2,4-Trichlorobenzene	25.00	105	106	50-150	33-167	1	0-35	
Vinyl Acetate	25.00	112	113	50-150	33-167	1	0-35	
Vinyl Chloride	25.00	112	104	45-177	23-199	8	0-36	
1,1-Difluoroethane	25.00	111	113	50-150	33-167	1	0-35	
Isopropanol	25.00	86	105	50-150	33-167	20	0-35	
2-Chlorotoluene	25.00	101	101	50-150	33-167	0	0-35	

Total number of LCS compounds : 80

Total number of ME compounds : 0

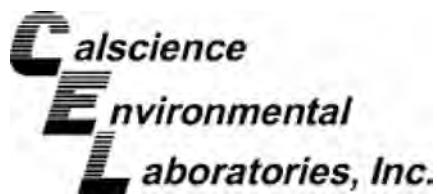
Total number of ME compounds allowed : 4

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



7440 Lincoln Way, Garden Grove, CA 92841-1427 . TEL:(714) 895-5494 . FAX: (714) 894-7501

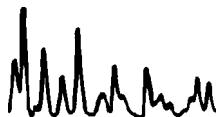


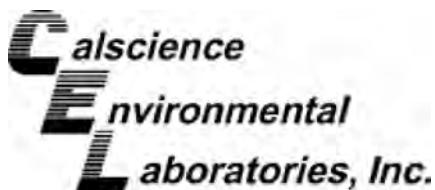
Summa Canister Vacuum Summary



Work Order Number: **12-03-2048**

Sample Name	Vacuum In	Vacuum Out	Equipment	Description
OC_VGAC_INF_SP241_032812	-2.00	-29.60	LC475	Summa Canister 1L
OC_VGAC_INT_SP245_032812	-2.00	-29.50	LC053	Summa Canister 1L
OC_VGAC_EFF_SP242_032812	-2.00	-29.60	LC464	Summa Canister 1L





Glossary of Terms and Qualifiers



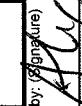
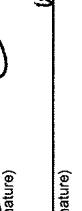
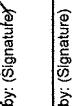
Work Order Number: 12-03-2048

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	MPN - Most Probable Number

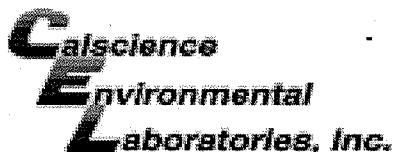


AIR CHAIN OF CUSTODY RECORD

DATE: 03/28/12
PAGE: 1 OF 1

LABORATORY CLIENT: de maximis		CLIENT PROJECT NAME / NUMBER: Omega		P.O. NO.:									
ADDRESS: 1322 Scott St., Suite 104		PROJECT ADDRESS: 12520 Whittier Blvd.		LAB CONTACT OR QUOTE NO.:									
City: San Diego	STATE: CA	ZIP: 92106	CITY: Whittier	STATE: CA	ZIP: 90602	LAB USE ONLY							
TEL: (310) 926-5368	EMAIL: jdinello@demaximis.com	PROJECT CONTACT: Andrew Miller - amiller@jacobandbeffner.com		SAMPLER(S) (NAME / SIGNATURE) 	REQUESTED ANALYSES								
TURNAROUND TIME: <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input checked="" type="checkbox"/> 5 DAYS <input type="checkbox"/> 10 DAYS		SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) <input checked="" type="checkbox"/> EDD		Carlton Hamm	TO-15 Select Compounds ¹								
SPECIAL INSTRUCTIONS: 1 - Select compounds: Benzene, Carbon tetrachloride, Chloroform, Chloroethane, Ethylene dichloride, Methyl tert-butyl ether, Methylene chloride, Naphthalene, Perchloroethylene, 1,1,2-Trichloroethane, Trichloroethylene, Vinyl chloride													
LAB USE ONLY	SAMPLE ID	FIELD ID / Point of Collection	Sampling Equipment Info		Start Sampling Information		Stop Sampling Information						
			Indoor (SV) Soil Vap. (A) Ambient	Canister ID#	Flow Controller ID#	Date	Time (24hr clock)	Canister Pressure (mbar)	Date	Time (24hr clock)	Canister Pressure (mbar)		
1	OC_VGAC_INF_SP241_032812	SP241	SV	1663	1L	—	3/28/2012	1339	-30	3/28/2012	1343	-2	x
2	OC_VGAC_INT_SP245_032812	SP245	SV	1025	1L	—	3/28/2012	1337	-30	3/28/2012	1341	-2	x
3	OC_VGAC_EFF_SP242_032812	SP242	SV	1665	1L	—	3/28/2012	1335	-30	3/28/2012	1339	-2	x
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
Relinquished by: (Signature) 		Received by: (Signature) 		Date: <u>3/30/12</u>		Time: <u>1420</u>							
Relinquished by: (Signature) 		Received by: (Signature) 		Date: <u>3/30/12</u>		Time: <u>1710</u>							
Relinquished by: (Signature) 		Received by: (Signature) 		Date: <u>3/30/12</u>		Time: <u>1710</u>							

Page 16 of 17
12/01/11 Revision

WORK ORDER #: 12-03-2048**SAMPLE RECEIPT FORM**Cooler 0 of 0CLIENT: D E MaxinsDATE: 03/30/12

TEMPERATURE: Thermometer ID: SC3 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature . °C - 0.3 °C (CF) = . °C Blank Sample

- Sample(s) outside temperature criteria (PM/APM contacted by: _____).
- Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

 Received at ambient temperature, placed on ice for transport by Courier.Ambient Temperature: Air FilterInitial: AM**CUSTODY SEALS INTACT:**

<input type="checkbox"/> Cooler	<input type="checkbox"/> _____	<input type="checkbox"/> No (Not Intact)	<input type="checkbox"/> Not Present	<input checked="" type="checkbox"/> N/A	Initial: <u>AM</u>
<input type="checkbox"/> Sample	<input type="checkbox"/> _____	<input type="checkbox"/> No (Not Intact)	<input checked="" type="checkbox"/> Not Present	<input type="checkbox"/> _____	Initial: <u>RS</u>

SAMPLE CONDITION:

Yes No N/A

Chain-Of-Custody (COC) document(s) received with samples..... COC document(s) received complete..... Collection date/time, matrix, and/or # of containers logged in based on sample labels. No analysis requested. Not relinquished. No date/time relinquished.Sampler's name indicated on COC..... Sample container label(s) consistent with COC..... Sample container(s) intact and good condition..... Proper containers and sufficient volume for analyses requested..... Analyses received within holding time..... pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours... Proper preservation noted on COC or sample container..... Unpreserved vials received for Volatiles analysisVolatile analysis container(s) free of headspace..... Tedlar bag(s) free of condensation..... **CONTAINER TYPE:**Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (_____) EnCores® TerraCores® _____Water: VOA VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs 500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 1PBna 500PB 250PB 250PBn 125PB 125PBznna 100PJ 100PJna₂ _____ _____Air: Tedlar® Summa® Other: _____ Trip Blank Lot#: _____ Labeled/Checked by: RSContainer: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: YSCPreservative: h: HCL n: HNO₃ na₂:Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure znna: ZnAc₂+NaOH f: Filtered Scanned by: WSE

Appendix B.3

Extraction Well and Monitoring Well Analytical Results

Water

Appendix B.3.1

February 21 - 22, 2012 Observation Well Results

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Irvine

17461 Derian Ave

Suite 100

Irvine, CA 92614-5817

Tel: (949)261-1022

TestAmerica Job ID: 440-3385-1

Client Project/Site: Omega Chemical Groundwater

For:

CDM Smith, Inc.

111 Academy, Ste 150

Irvine, California 92617

Attn: Sharon Wallin



Authorized for release by:

3/7/2012 5:30:27 PM

Patty Mata

Project Manager I

patty.mata@testamericainc.com

LINKS

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results through

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The
Expert

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Groundwater

TestAmerica Job ID: 440-3385-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-3385-1	OC-GW-OW8B-022112	Water	02/21/12 10:25	02/21/12 16:50
440-3385-2	OC-GW-OW9-022112	Water	02/21/12 11:32	02/21/12 16:50
440-3385-3	OC-GW-OW9K-022112	Water	02/21/12 11:40	02/21/12 16:50
440-3385-4	OC-GW-PZ5-022112	Water	02/21/12 13:03	02/21/12 16:50
440-3385-5	OC-GW-OW1B-022112	Water	02/21/12 14:23	02/21/12 16:50
440-3385-6	OC-GW-OW10-022112	Water	02/21/12 14:40	02/21/12 16:50
440-3385-7	OC-GW-PZ5N-022112	Water	02/21/12 13:23	02/21/12 16:50
440-3385-8	OC-GW-TB-022112	Water	02/21/12 16:50	02/21/12 16:50

Case Narrative

Client: CDM Smith, Inc.
Project/Site: Omega Chemical Groundwater

TestAmerica Job ID: 440-3385-1

Job ID: 440-3385-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative 440-3385-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

Method(s) 8260B: The continuing calibration verification (CCV) for 2,2-Dichloropropane associated with batch 10130 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No other analytical or quality issues were noted.

GC/MS Semi VOA

Method(s) 8270C SIM: There was no MS/MSD analyzed with this batch due to insufficient sample volume. See LCS/LCSD.

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

VOA Prep

No analytical or quality issues were noted.

Client Sample Results

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Groundwater

TestAmerica Job ID: 440-3385-1

Client Sample ID: OC-GW-OW8B-022112

Lab Sample ID: 440-3385-1

Matrix: Water

Date Collected: 02/21/12 10:25

Date Received: 02/21/12 16:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L		02/29/12 10:08		1
1,1,1-Trichloroethane	ND		1.0	ug/L		02/29/12 10:08		1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L		02/29/12 10:08		1
1,1,2-Trichloroethane	ND		1.0	ug/L		02/29/12 10:08		1
1,1-Dichloroethane	ND		1.0	ug/L		02/29/12 10:08		1
1,1-Dichloroethene	ND		1.0	ug/L		02/29/12 10:08		1
1,1-Dichloropropene	ND		1.0	ug/L		02/29/12 10:08		1
1,2,3-Trichlorobenzene	ND		1.0	ug/L		02/29/12 10:08		1
1,2,3-Trichloropropane	ND		1.0	ug/L		02/29/12 10:08		1
1,2,4-Trichlorobenzene	ND		1.0	ug/L		02/29/12 10:08		1
1,2,4-Trimethylbenzene	ND		1.0	ug/L		02/29/12 10:08		1
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L		02/29/12 10:08		1
1,2-Dichlorobenzene	ND		1.0	ug/L		02/29/12 10:08		1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L		02/29/12 10:08		1
1,2-Dichloroethane	ND		1.0	ug/L		02/29/12 10:08		1
1,2-Dichloropropane	ND		1.0	ug/L		02/29/12 10:08		1
1,3,5-Trimethylbenzene	ND		1.0	ug/L		02/29/12 10:08		1
1,3-Dichlorobenzene	ND		1.0	ug/L		02/29/12 10:08		1
1,3-Dichloropropane	ND		1.0	ug/L		02/29/12 10:08		1
1,4-Dichlorobenzene	ND		1.0	ug/L		02/29/12 10:08		1
2,2-Dichloropropane	ND		1.0	ug/L		02/29/12 10:08		1
2-Chlorotoluene	ND		1.0	ug/L		02/29/12 10:08		1
4-Chlorotoluene	ND		1.0	ug/L		02/29/12 10:08		1
p-Isopropyltoluene	ND		1.0	ug/L		02/29/12 10:08		1
Benzene	ND		0.50	ug/L		02/29/12 10:08		1
Bromobenzene	ND		1.0	ug/L		02/29/12 10:08		1
Bromoform	ND		1.0	ug/L		02/29/12 10:08		1
Bromomethane	ND		1.0	ug/L		02/29/12 10:08		1
Bromodichloromethane	ND		1.0	ug/L		02/29/12 10:08		1
Cis-1,2-Dichloroethene	ND		1.0	ug/L		02/29/12 10:08		1
cis-1,3-Dichloropropene	ND		0.50	ug/L		02/29/12 10:08		1
Dibromochloromethane	ND		1.0	ug/L		02/29/12 10:08		1
Dibromomethane	ND		1.0	ug/L		02/29/12 10:08		1
Dichlorodifluoromethane	ND		1.0	ug/L		02/29/12 10:08		1
Ethylbenzene	ND		1.0	ug/L		02/29/12 10:08		1
Hexachlorobutadiene	ND		1.0	ug/L		02/29/12 10:08		1
Isopropylbenzene	ND		1.0	ug/L		02/29/12 10:08		1
m,p-Xylene	ND		1.0	ug/L		02/29/12 10:08		1
Methylene Chloride	ND		5.0	ug/L		02/29/12 10:08		1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L		02/29/12 10:08		1
Naphthalene	ND		1.0	ug/L		02/29/12 10:08		1
n-Butylbenzene	ND		1.0	ug/L		02/29/12 10:08		1
N-Propylbenzene	ND		1.0	ug/L		02/29/12 10:08		1
o-Xylene	ND		1.0	ug/L		02/29/12 10:08		1
sec-Butylbenzene	ND		1.0	ug/L		02/29/12 10:08		1

Client Sample Results

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Groundwater

TestAmerica Job ID: 440-3385-1

Client Sample ID: OC-GW-OW8B-022112

Lab Sample ID: 440-3385-1

Date Collected: 02/21/12 10:25

Matrix: Water

Date Received: 02/21/12 16:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Styrene	ND		1.0	ug/L			02/29/12 10:08	1	
tert-Butylbenzene	ND		1.0	ug/L			02/29/12 10:08	1	
Tetrachloroethene	2.4		1.0	ug/L			02/29/12 10:08	1	
Toluene	ND		1.0	ug/L			02/29/12 10:08	1	
trans-1,2-Dichloroethene	ND		1.0	ug/L			02/29/12 10:08	1	
trans-1,3-Dichloropropene	ND		0.50	ug/L			02/29/12 10:08	1	
Trichloroethylene	ND		1.0	ug/L			02/29/12 10:08	1	
Trichlorofluoromethane	ND		1.0	ug/L			02/29/12 10:08	1	
Vinyl chloride	ND		0.50	ug/L			02/29/12 10:08	1	
Acetone	ND		10	ug/L			02/29/12 10:08	1	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	ug/L			02/29/12 10:08	1	
Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					02/29/12 10:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120					02/29/12 10:08	1
Dibromofluoromethane (Surr)	92		80 - 120					02/29/12 10:08	1
Toluene-d8 (Surr)	102		80 - 120					02/29/12 10:08	1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.48	ug/L		02/26/12 16:57	03/03/12 01:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	71		30 - 120			02/26/12 16:57	03/03/12 01:01	1

Client Sample ID: OC-GW-OW9-022112

Lab Sample ID: 440-3385-2

Date Collected: 02/21/12 11:32

Matrix: Water

Date Received: 02/21/12 16:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		20	ug/L			02/29/12 11:44	20
1,1,1-Trichloroethane	ND		20	ug/L			02/29/12 11:44	20
1,1,2,2-Tetrachloroethane	ND		20	ug/L			02/29/12 11:44	20
1,1,2-Trichloroethane	ND		20	ug/L			02/29/12 11:44	20
1,1-Dichloroethane	ND		20	ug/L			02/29/12 11:44	20
1,1-Dichloroethene	660		20	ug/L			02/29/12 11:44	20
1,1-Dichloropropene	ND		20	ug/L			02/29/12 11:44	20
1,2,3-Trichlorobenzene	ND		20	ug/L			02/29/12 11:44	20
1,2,3-Trichloropropane	ND		20	ug/L			02/29/12 11:44	20
1,2,4-Trichlorobenzene	ND		20	ug/L			02/29/12 11:44	20
1,2,4-Trimethylbenzene	ND		20	ug/L			02/29/12 11:44	20
1,2-Dibromo-3-Chloropropane	ND		100	ug/L			02/29/12 11:44	20
1,2-Dichlorobenzene	ND		20	ug/L			02/29/12 11:44	20
1,2-Dibromoethane (EDB)	ND		20	ug/L			02/29/12 11:44	20
1,2-Dichloroethane	95		20	ug/L			02/29/12 11:44	20
1,2-Dichloropropane	ND		20	ug/L			02/29/12 11:44	20
1,3,5-Trimethylbenzene	ND		20	ug/L			02/29/12 11:44	20
1,3-Dichlorobenzene	ND		20	ug/L			02/29/12 11:44	20
1,3-Dichloropropane	ND		20	ug/L			02/29/12 11:44	20

Client Sample Results

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Groundwater

TestAmerica Job ID: 440-3385-1

Client Sample ID: OC-GW-OW9-022112

Lab Sample ID: 440-3385-2

Date Collected: 02/21/12 11:32

Matrix: Water

Date Received: 02/21/12 16:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		20	ug/L			02/29/12 11:44	20
2,2-Dichloropropane	ND		20	ug/L			02/29/12 11:44	20
2-Chlorotoluene	ND		20	ug/L			02/29/12 11:44	20
4-Chlorotoluene	ND		20	ug/L			02/29/12 11:44	20
p-Isopropyltoluene	ND		20	ug/L			02/29/12 11:44	20
Benzene	ND		10	ug/L			02/29/12 11:44	20
Bromobenzene	ND		20	ug/L			02/29/12 11:44	20
Bromoform	ND		20	ug/L			02/29/12 11:44	20
Bromochloromethane	ND		20	ug/L			02/29/12 11:44	20
Bromodichloromethane	ND		20	ug/L			02/29/12 11:44	20
Bromoform	ND		20	ug/L			02/29/12 11:44	20
Bromomethane	ND		20	ug/L			02/29/12 11:44	20
Carbon tetrachloride	ND		10	ug/L			02/29/12 11:44	20
Chlorobenzene	ND		20	ug/L			02/29/12 11:44	20
Chloroethane	ND		20	ug/L			02/29/12 11:44	20
Chloroform	490		20	ug/L			02/29/12 11:44	20
Chloromethane	ND		20	ug/L			02/29/12 11:44	20
cis-1,2-Dichloroethene	ND		20	ug/L			02/29/12 11:44	20
cis-1,3-Dichloropropene	ND		10	ug/L			02/29/12 11:44	20
Dibromochloromethane	ND		20	ug/L			02/29/12 11:44	20
Dibromomethane	ND		20	ug/L			02/29/12 11:44	20
Dichlorodifluoromethane	ND		20	ug/L			02/29/12 11:44	20
Ethylbenzene	ND		20	ug/L			02/29/12 11:44	20
Hexachlorobutadiene	ND		20	ug/L			02/29/12 11:44	20
Isopropylbenzene	ND		20	ug/L			02/29/12 11:44	20
m,p-Xylene	ND		20	ug/L			02/29/12 11:44	20
Methylene Chloride	ND		100	ug/L			02/29/12 11:44	20
Methyl-t-Butyl Ether (MTBE)	ND		20	ug/L			02/29/12 11:44	20
Naphthalene	ND		20	ug/L			02/29/12 11:44	20
n-Butylbenzene	ND		20	ug/L			02/29/12 11:44	20
N-Propylbenzene	ND		20	ug/L			02/29/12 11:44	20
o-Xylene	ND		20	ug/L			02/29/12 11:44	20
sec-Butylbenzene	ND		20	ug/L			02/29/12 11:44	20
Styrene	ND		20	ug/L			02/29/12 11:44	20
tert-Butylbenzene	ND		20	ug/L			02/29/12 11:44	20
Toluene	ND		20	ug/L			02/29/12 11:44	20
trans-1,2-Dichloroethene	ND		20	ug/L			02/29/12 11:44	20
trans-1,3-Dichloropropene	ND		10	ug/L			02/29/12 11:44	20
Trichloroethene	440		20	ug/L			02/29/12 11:44	20
Trichlorofluoromethane	190		20	ug/L			02/29/12 11:44	20
Vinyl chloride	ND		10	ug/L			02/29/12 11:44	20
Acetone	ND		200	ug/L			02/29/12 11:44	20
1,1,2-Trichloro-1,2,2-trifluoroethane	520		100	ug/L			02/29/12 11:44	20

Tentatively Identified Compound

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					02/29/12 11:44	20

Surrogate

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120			20
Dibromofluoromethane (Surr)	94		80 - 120			20
Toluene-d8 (Surr)	102		80 - 120			20

Client Sample Results

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Groundwater

TestAmerica Job ID: 440-3385-1

Client Sample ID: OC-GW-OW9-022112

Lab Sample ID: 440-3385-2

Date Collected: 02/21/12 11:32

Matrix: Water

Date Received: 02/21/12 16:50

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	9000		100	ug/L			02/29/12 12:12	100
Surrogate								
4-Bromofluorobenzene (Surr)	106		80 - 120			Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	91		80 - 120				02/29/12 12:12	100
Toluene-d8 (Surr)	102		80 - 120				02/29/12 12:12	100

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	520		50	ug/L		02/26/12 16:57	03/03/12 01:24	1
Surrogate								
1,4-Dioxane-d8 (Surr)	67		30 - 120			Prepared	Analyzed	Dil Fac

Client Sample ID: OC-GW-OW9K-022112

Lab Sample ID: 440-3385-3

Date Collected: 02/21/12 11:40

Matrix: Water

Date Received: 02/21/12 16:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		20	ug/L			02/29/12 12:41	20
1,1,1-Trichloroethane	ND		20	ug/L			02/29/12 12:41	20
1,1,2,2-Tetrachloroethane	ND		20	ug/L			02/29/12 12:41	20
1,1,2-Trichloroethane	ND		20	ug/L			02/29/12 12:41	20
1,1-Dichloroethane	ND		20	ug/L			02/29/12 12:41	20
1,1-Dichloroethene	680		20	ug/L			02/29/12 12:41	20
1,1-Dichloropropene	ND		20	ug/L			02/29/12 12:41	20
1,2,3-Trichlorobenzene	ND		20	ug/L			02/29/12 12:41	20
1,2,3-Trichloropropane	ND		20	ug/L			02/29/12 12:41	20
1,2,4-Trichlorobenzene	ND		20	ug/L			02/29/12 12:41	20
1,2,4-Trimethylbenzene	ND		20	ug/L			02/29/12 12:41	20
1,2-Dibromo-3-Chloropropane	ND		100	ug/L			02/29/12 12:41	20
1,2-Dichlorobenzene	ND		20	ug/L			02/29/12 12:41	20
1,2-Dibromoethane (EDB)	ND		20	ug/L			02/29/12 12:41	20
1,2-Dichloroethane	110		20	ug/L			02/29/12 12:41	20
1,2-Dichloropropane	ND		20	ug/L			02/29/12 12:41	20
1,3,5-Trimethylbenzene	ND		20	ug/L			02/29/12 12:41	20
1,3-Dichlorobenzene	ND		20	ug/L			02/29/12 12:41	20
1,3-Dichloropropane	ND		20	ug/L			02/29/12 12:41	20
1,4-Dichlorobenzene	ND		20	ug/L			02/29/12 12:41	20
2,2-Dichloropropane	ND		20	ug/L			02/29/12 12:41	20
2-Chlorotoluene	ND		20	ug/L			02/29/12 12:41	20
4-Chlorotoluene	ND		20	ug/L			02/29/12 12:41	20
p-Isopropyltoluene	ND		20	ug/L			02/29/12 12:41	20
Benzene	ND		10	ug/L			02/29/12 12:41	20
Bromobenzene	ND		20	ug/L			02/29/12 12:41	20
Bromochloromethane	ND		20	ug/L			02/29/12 12:41	20
Bromodichloromethane	ND		20	ug/L			02/29/12 12:41	20
Bromoform	ND		20	ug/L			02/29/12 12:41	20
Bromomethane	ND		20	ug/L			02/29/12 12:41	20
Carbon tetrachloride	ND		10	ug/L			02/29/12 12:41	20
Chlorobenzene	ND		20	ug/L			02/29/12 12:41	20

Client Sample Results

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Groundwater

TestAmerica Job ID: 440-3385-1

Client Sample ID: OC-GW-OW9K-022112

Lab Sample ID: 440-3385-3

Date Collected: 02/21/12 11:40

Matrix: Water

Date Received: 02/21/12 16:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		20	ug/L		02/29/12 12:41		20
Chloroform	500		20	ug/L		02/29/12 12:41		20
Chloromethane	ND		20	ug/L		02/29/12 12:41		20
cis-1,2-Dichloroethene	ND		20	ug/L		02/29/12 12:41		20
cis-1,3-Dichloropropene	ND		10	ug/L		02/29/12 12:41		20
Dibromochloromethane	ND		20	ug/L		02/29/12 12:41		20
Dibromomethane	ND		20	ug/L		02/29/12 12:41		20
Dichlorodifluoromethane	ND		20	ug/L		02/29/12 12:41		20
Ethylbenzene	ND		20	ug/L		02/29/12 12:41		20
Hexachlorobutadiene	ND		20	ug/L		02/29/12 12:41		20
Isopropylbenzene	ND		20	ug/L		02/29/12 12:41		20
m,p-Xylene	ND		20	ug/L		02/29/12 12:41		20
Methylene Chloride	ND		100	ug/L		02/29/12 12:41		20
Methyl-t-Butyl Ether (MTBE)	ND		20	ug/L		02/29/12 12:41		20
Naphthalene	ND		20	ug/L		02/29/12 12:41		20
n-Butylbenzene	ND		20	ug/L		02/29/12 12:41		20
N-Propylbenzene	ND		20	ug/L		02/29/12 12:41		20
o-Xylene	ND		20	ug/L		02/29/12 12:41		20
sec-Butylbenzene	ND		20	ug/L		02/29/12 12:41		20
Styrene	ND		20	ug/L		02/29/12 12:41		20
tert-Butylbenzene	ND		20	ug/L		02/29/12 12:41		20
Toluene	ND		20	ug/L		02/29/12 12:41		20
trans-1,2-Dichloroethene	ND		20	ug/L		02/29/12 12:41		20
trans-1,3-Dichloropropene	ND		10	ug/L		02/29/12 12:41		20
Trichloroethene	450		20	ug/L		02/29/12 12:41		20
Trichlorofluoromethane	200		20	ug/L		02/29/12 12:41		20
Vinyl chloride	ND		10	ug/L		02/29/12 12:41		20
Acetone	ND		200	ug/L		02/29/12 12:41		20
1,1,2-Trichloro-1,2,2-trifluoroetha ne	530		100	ug/L		02/29/12 12:41		20

Tentatively Identified Compound

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					02/29/12 12:41	20

Surrogate

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		80 - 120		02/29/12 12:41	20
Dibromofluoromethane (Surr)	95		80 - 120		02/29/12 12:41	20
Toluene-d8 (Surr)	105		80 - 120		02/29/12 12:41	20

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	9600		100	ug/L		02/29/12 13:09		100
Surrogate	%Recovery	Qualifier	Limits					
4-Bromofluorobenzene (Surr)	104		80 - 120				02/29/12 13:09	100
Dibromofluoromethane (Surr)	95		80 - 120				02/29/12 13:09	100
Toluene-d8 (Surr)	102		80 - 120				02/29/12 13:09	100

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	540		50	ug/L		02/26/12 16:57	03/03/12 01:47	1

Client Sample Results

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Groundwater

TestAmerica Job ID: 440-3385-1

Client Sample ID: OC-GW-OW9K-022112

Date Collected: 02/21/12 11:40

Date Received: 02/21/12 16:50

Lab Sample ID: 440-3385-3

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	69		30 - 120	02/26/12 16:57	03/03/12 01:47	1

Client Sample ID: OC-GW-PZ5-022112

Date Collected: 02/21/12 13:03

Date Received: 02/21/12 16:50

Lab Sample ID: 440-3385-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L		02/29/12 13:38		1	
1,1,1-Trichloroethane	ND		1.0	ug/L		02/29/12 13:38		1	
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L		02/29/12 13:38		1	
1,1,2-Trichloroethane	ND		1.0	ug/L		02/29/12 13:38		1	
1,1-Dichloroethane	ND		1.0	ug/L		02/29/12 13:38		1	
1,1-Dichloroethene	1.9		1.0	ug/L		02/29/12 13:38		1	
1,1-Dichloropropene	ND		1.0	ug/L		02/29/12 13:38		1	
1,2,3-Trichlorobenzene	ND		1.0	ug/L		02/29/12 13:38		1	
1,2,3-Trichloropropane	ND		1.0	ug/L		02/29/12 13:38		1	
1,2,4-Trichlorobenzene	ND		1.0	ug/L		02/29/12 13:38		1	
1,2,4-Trimethylbenzene	ND		1.0	ug/L		02/29/12 13:38		1	
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L		02/29/12 13:38		1	
1,2-Dichlorobenzene	ND		1.0	ug/L		02/29/12 13:38		1	
1,2-Dibromoethane (EDB)	ND		1.0	ug/L		02/29/12 13:38		1	
1,2-Dichloroethane	ND		1.0	ug/L		02/29/12 13:38		1	
1,2-Dichloropropene	ND		1.0	ug/L		02/29/12 13:38		1	
1,3,5-Trimethylbenzene	ND		1.0	ug/L		02/29/12 13:38		1	
1,3-Dichlorobenzene	ND		1.0	ug/L		02/29/12 13:38		1	
1,3-Dichloropropane	ND		1.0	ug/L		02/29/12 13:38		1	
1,4-Dichlorobenzene	ND		1.0	ug/L		02/29/12 13:38		1	
2,2-Dichloropropane	ND		1.0	ug/L		02/29/12 13:38		1	
2-Chlorotoluene	ND		1.0	ug/L		02/29/12 13:38		1	
4-Chlorotoluene	ND		1.0	ug/L		02/29/12 13:38		1	
p-Isopropyltoluene	ND		1.0	ug/L		02/29/12 13:38		1	
Benzene	ND		0.50	ug/L		02/29/12 13:38		1	
Bromobenzene	ND		1.0	ug/L		02/29/12 13:38		1	
Bromochloromethane	ND		1.0	ug/L		02/29/12 13:38		1	
Bromodichloromethane	ND		1.0	ug/L		02/29/12 13:38		1	
Bromoform	ND		1.0	ug/L		02/29/12 13:38		1	
Bromomethane	ND		1.0	ug/L		02/29/12 13:38		1	
Carbon tetrachloride	ND		0.50	ug/L		02/29/12 13:38		1	
Chlorobenzene	ND		1.0	ug/L		02/29/12 13:38		1	
Chloroethane	ND		1.0	ug/L		02/29/12 13:38		1	
Chloroform	1.3		1.0	ug/L		02/29/12 13:38		1	
Chloromethane	ND		1.0	ug/L		02/29/12 13:38		1	
cis-1,2-Dichloroethene	ND		1.0	ug/L		02/29/12 13:38		1	
cis-1,3-Dichloropropene	ND		0.50	ug/L		02/29/12 13:38		1	
Dibromochloromethane	ND		1.0	ug/L		02/29/12 13:38		1	
Dibromomethane	ND		1.0	ug/L		02/29/12 13:38		1	
Dichlorodifluoromethane	ND		1.0	ug/L		02/29/12 13:38		1	
Ethylbenzene	ND		1.0	ug/L		02/29/12 13:38		1	
Hexachlorobutadiene	ND		1.0	ug/L		02/29/12 13:38		1	
Isopropylbenzene	ND		1.0	ug/L		02/29/12 13:38		1	
m,p-Xylene	ND		1.0	ug/L		02/29/12 13:38		1	

Client Sample Results

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Groundwater

TestAmerica Job ID: 440-3385-1

Client Sample ID: OC-GW-PZ5-022112

Lab Sample ID: 440-3385-4

Date Collected: 02/21/12 13:03

Matrix: Water

Date Received: 02/21/12 16:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.0	ug/L		02/29/12 13:38		1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L		02/29/12 13:38		1
Naphthalene	ND		1.0	ug/L		02/29/12 13:38		1
n-Butylbenzene	ND		1.0	ug/L		02/29/12 13:38		1
N-Propylbenzene	ND		1.0	ug/L		02/29/12 13:38		1
o-Xylene	ND		1.0	ug/L		02/29/12 13:38		1
sec-Butylbenzene	ND		1.0	ug/L		02/29/12 13:38		1
Styrene	ND		1.0	ug/L		02/29/12 13:38		1
tert-Butylbenzene	ND		1.0	ug/L		02/29/12 13:38		1
Tetrachloroethene	50		1.0	ug/L		02/29/12 13:38		1
Toluene	ND		1.0	ug/L		02/29/12 13:38		1
trans-1,2-Dichloroethene	ND		1.0	ug/L		02/29/12 13:38		1
trans-1,3-Dichloropropene	ND		0.50	ug/L		02/29/12 13:38		1
Trichloroethene	11		1.0	ug/L		02/29/12 13:38		1
Trichlorofluoromethane	7.8		1.0	ug/L		02/29/12 13:38		1
Vinyl chloride	ND		0.50	ug/L		02/29/12 13:38		1
Acetone	ND		10	ug/L		02/29/12 13:38		1
1,1,2-Trichloro-1,2,2-trifluoroethane	14		5.0	ug/L		02/29/12 13:38		1

Tentatively Identified Compound

	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Ethene, 1,2-dichloro-, (Z)-	150	T J N	ug/L		4.54	156-59-2		02/29/12 13:38	1

Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120		02/29/12 13:38	1
Dibromofluoromethane (Surr)	97		80 - 120		02/29/12 13:38	1
Toluene-d8 (Surr)	104		80 - 120		02/29/12 13:38	1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.47	ug/L		02/26/12 16:57	03/03/12 02:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	74		30 - 120			02/26/12 16:57	03/03/12 02:09	1

Client Sample ID: OC-GW-OW1B-022112

Lab Sample ID: 440-3385-5

Date Collected: 02/21/12 14:23

Matrix: Water

Date Received: 02/21/12 16:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L		02/29/12 14:06		1
1,1,1-Trichloroethane	ND		1.0	ug/L		02/29/12 14:06		1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L		02/29/12 14:06		1
1,1,2-Trichloroethane	ND		1.0	ug/L		02/29/12 14:06		1
1,1-Dichloroethane	ND		1.0	ug/L		02/29/12 14:06		1
1,1-Dichloroethene	ND		1.0	ug/L		02/29/12 14:06		1
1,1-Dichloropropene	ND		1.0	ug/L		02/29/12 14:06		1
1,2,3-Trichlorobenzene	ND		1.0	ug/L		02/29/12 14:06		1
1,2,3-Trichloropropane	ND		1.0	ug/L		02/29/12 14:06		1
1,2,4-Trichlorobenzene	ND		1.0	ug/L		02/29/12 14:06		1
1,2,4-Trimethylbenzene	ND		1.0	ug/L		02/29/12 14:06		1

Client Sample Results

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Groundwater

TestAmerica Job ID: 440-3385-1

Client Sample ID: OC-GW-OW1B-022112

Lab Sample ID: 440-3385-5

Date Collected: 02/21/12 14:23

Matrix: Water

Date Received: 02/21/12 16:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L		02/29/12 14:06		1
1,2-Dichlorobenzene	ND		1.0	ug/L		02/29/12 14:06		1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L		02/29/12 14:06		1
1,2-Dichloroethane	ND		1.0	ug/L		02/29/12 14:06		1
1,2-Dichloropropane	ND		1.0	ug/L		02/29/12 14:06		1
1,3,5-Trimethylbenzene	ND		1.0	ug/L		02/29/12 14:06		1
1,3-Dichlorobenzene	ND		1.0	ug/L		02/29/12 14:06		1
1,3-Dichloropropane	ND		1.0	ug/L		02/29/12 14:06		1
1,4-Dichlorobenzene	ND		1.0	ug/L		02/29/12 14:06		1
2,2-Dichloropropane	ND		1.0	ug/L		02/29/12 14:06		1
2-Chlorotoluene	ND		1.0	ug/L		02/29/12 14:06		1
4-Chlorotoluene	ND		1.0	ug/L		02/29/12 14:06		1
p-Isopropyltoluene	ND		1.0	ug/L		02/29/12 14:06		1
Benzene	ND		0.50	ug/L		02/29/12 14:06		1
Bromobenzene	ND		1.0	ug/L		02/29/12 14:06		1
Bromochloromethane	ND		1.0	ug/L		02/29/12 14:06		1
Bromodichloromethane	ND		1.0	ug/L		02/29/12 14:06		1
Bromoform	ND		1.0	ug/L		02/29/12 14:06		1
Bromomethane	ND		1.0	ug/L		02/29/12 14:06		1
Carbon tetrachloride	ND		0.50	ug/L		02/29/12 14:06		1
Chlorobenzene	ND		1.0	ug/L		02/29/12 14:06		1
Chloroethane	ND		1.0	ug/L		02/29/12 14:06		1
Chloroform	ND		1.0	ug/L		02/29/12 14:06		1
Chloromethane	ND		1.0	ug/L		02/29/12 14:06		1
cis-1,2-Dichloroethene	ND		1.0	ug/L		02/29/12 14:06		1
cis-1,3-Dichloropropene	ND		0.50	ug/L		02/29/12 14:06		1
Dibromochloromethane	ND		1.0	ug/L		02/29/12 14:06		1
Dibromomethane	ND		1.0	ug/L		02/29/12 14:06		1
Dichlorodifluoromethane	ND		1.0	ug/L		02/29/12 14:06		1
Ethylbenzene	ND		1.0	ug/L		02/29/12 14:06		1
Hexachlorobutadiene	ND		1.0	ug/L		02/29/12 14:06		1
Isopropylbenzene	ND		1.0	ug/L		02/29/12 14:06		1
m,p-Xylene	ND		1.0	ug/L		02/29/12 14:06		1
Methylene Chloride	ND		5.0	ug/L		02/29/12 14:06		1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L		02/29/12 14:06		1
Naphthalene	ND		1.0	ug/L		02/29/12 14:06		1
n-Butylbenzene	ND		1.0	ug/L		02/29/12 14:06		1
N-Propylbenzene	ND		1.0	ug/L		02/29/12 14:06		1
o-Xylene	ND		1.0	ug/L		02/29/12 14:06		1
sec-Butylbenzene	ND		1.0	ug/L		02/29/12 14:06		1
Styrene	ND		1.0	ug/L		02/29/12 14:06		1
tert-Butylbenzene	ND		1.0	ug/L		02/29/12 14:06		1
Tetrachloroethene	21		1.0	ug/L		02/29/12 14:06		1
Toluene	ND		1.0	ug/L		02/29/12 14:06		1
trans-1,2-Dichloroethene	ND		1.0	ug/L		02/29/12 14:06		1
trans-1,3-Dichloropropene	ND		0.50	ug/L		02/29/12 14:06		1
Trichloroethene	ND		1.0	ug/L		02/29/12 14:06		1
Trichlorofluoromethane	ND		1.0	ug/L		02/29/12 14:06		1
Vinyl chloride	ND		0.50	ug/L		02/29/12 14:06		1
Acetone	ND		10	ug/L		02/29/12 14:06		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	ug/L		02/29/12 14:06		1

Client Sample Results

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Groundwater

TestAmerica Job ID: 440-3385-1

Client Sample ID: OC-GW-OW1B-022112

Lab Sample ID: 440-3385-5

Matrix: Water

Date Collected: 02/21/12 14:23

Date Received: 02/21/12 16:50

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					02/29/12 14:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		80 - 120					02/29/12 14:06	1
Dibromofluoromethane (Surr)	97		80 - 120					02/29/12 14:06	1
Toluene-d8 (Surr)	104		80 - 120					02/29/12 14:06	1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.49	ug/L		02/26/12 16:57	03/03/12 02:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	71		30 - 120			02/26/12 16:57	03/03/12 02:32	1

Client Sample ID: OC-GW-OW10-022112

Lab Sample ID: 440-3385-6

Matrix: Water

Date Collected: 02/21/12 14:40

Date Received: 02/21/12 16:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L		02/29/12 14:34		1
1,1,1-Trichloroethane	ND		1.0	ug/L		02/29/12 14:34		1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L		02/29/12 14:34		1
1,1,2-Trichloroethane	ND		1.0	ug/L		02/29/12 14:34		1
1,1-Dichloroethane	ND		1.0	ug/L		02/29/12 14:34		1
1,1-Dichloroethene	62		1.0	ug/L		02/29/12 14:34		1
1,1-Dichloropropene	ND		1.0	ug/L		02/29/12 14:34		1
1,2,3-Trichlorobenzene	ND		1.0	ug/L		02/29/12 14:34		1
1,2,3-Trichloropropane	ND		1.0	ug/L		02/29/12 14:34		1
1,2,4-Trichlorobenzene	ND		1.0	ug/L		02/29/12 14:34		1
1,2,4-Trimethylbenzene	ND		1.0	ug/L		02/29/12 14:34		1
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L		02/29/12 14:34		1
1,2-Dichlorobenzene	ND		1.0	ug/L		02/29/12 14:34		1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L		02/29/12 14:34		1
1,2-Dichloroethane	ND		1.0	ug/L		02/29/12 14:34		1
1,2-Dichloropropene	ND		1.0	ug/L		02/29/12 14:34		1
1,3,5-Trimethylbenzene	ND		1.0	ug/L		02/29/12 14:34		1
1,3-Dichlorobenzene	ND		1.0	ug/L		02/29/12 14:34		1
1,3-Dichloropropane	ND		1.0	ug/L		02/29/12 14:34		1
1,4-Dichlorobenzene	ND		1.0	ug/L		02/29/12 14:34		1
2,2-Dichloropropane	ND		1.0	ug/L		02/29/12 14:34		1
2-Chlorotoluene	ND		1.0	ug/L		02/29/12 14:34		1
4-Chlorotoluene	ND		1.0	ug/L		02/29/12 14:34		1
p-Isopropyltoluene	ND		1.0	ug/L		02/29/12 14:34		1
Benzene	ND		0.50	ug/L		02/29/12 14:34		1
Bromobenzene	ND		1.0	ug/L		02/29/12 14:34		1
Bromochloromethane	ND		1.0	ug/L		02/29/12 14:34		1
Bromodichloromethane	ND		1.0	ug/L		02/29/12 14:34		1
Bromoform	ND		1.0	ug/L		02/29/12 14:34		1
Bromomethane	ND		1.0	ug/L		02/29/12 14:34		1
Carbon tetrachloride	ND		0.50	ug/L		02/29/12 14:34		1
Chlorobenzene	ND		1.0	ug/L		02/29/12 14:34		1

Client Sample Results

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Groundwater

TestAmerica Job ID: 440-3385-1

Client Sample ID: OC-GW-OW10-022112

Lab Sample ID: 440-3385-6

Date Collected: 02/21/12 14:40

Matrix: Water

Date Received: 02/21/12 16:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		1.0	ug/L		02/29/12 14:34		1
Chloroform	ND		1.0	ug/L		02/29/12 14:34		1
Chloromethane	ND		1.0	ug/L		02/29/12 14:34		1
cis-1,2-Dichloroethene	ND		1.0	ug/L		02/29/12 14:34		1
cis-1,3-Dichloropropene	ND		0.50	ug/L		02/29/12 14:34		1
Dibromochloromethane	ND		1.0	ug/L		02/29/12 14:34		1
Dibromomethane	ND		1.0	ug/L		02/29/12 14:34		1
Dichlorodifluoromethane	ND		1.0	ug/L		02/29/12 14:34		1
Ethylbenzene	ND		1.0	ug/L		02/29/12 14:34		1
Hexachlorobutadiene	ND		1.0	ug/L		02/29/12 14:34		1
Isopropylbenzene	ND		1.0	ug/L		02/29/12 14:34		1
m,p-Xylene	ND		1.0	ug/L		02/29/12 14:34		1
Methylene Chloride	ND		5.0	ug/L		02/29/12 14:34		1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L		02/29/12 14:34		1
Naphthalene	ND		1.0	ug/L		02/29/12 14:34		1
n-Butylbenzene	ND		1.0	ug/L		02/29/12 14:34		1
N-Propylbenzene	ND		1.0	ug/L		02/29/12 14:34		1
o-Xylene	ND		1.0	ug/L		02/29/12 14:34		1
sec-Butylbenzene	ND		1.0	ug/L		02/29/12 14:34		1
Styrene	ND		1.0	ug/L		02/29/12 14:34		1
tert-Butylbenzene	ND		1.0	ug/L		02/29/12 14:34		1
Tetrachloroethene	48		1.0	ug/L		02/29/12 14:34		1
Toluene	ND		1.0	ug/L		02/29/12 14:34		1
trans-1,2-Dichloroethene	ND		1.0	ug/L		02/29/12 14:34		1
trans-1,3-Dichloropropene	ND		0.50	ug/L		02/29/12 14:34		1
Trichloroethene	3.1		1.0	ug/L		02/29/12 14:34		1
Trichlorofluoromethane	12		1.0	ug/L		02/29/12 14:34		1
Vinyl chloride	ND		0.50	ug/L		02/29/12 14:34		1
Acetone	ND		10	ug/L		02/29/12 14:34		1
1,1,2-Trichloro-1,2,2-trifluoroethane	16		5.0	ug/L		02/29/12 14:34		1

Tentatively Identified Compound

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L				02/29/12 14:34		1

Surrogate

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		80 - 120		02/29/12 14:34	1
Dibromofluoromethane (Surr)	99		80 - 120		02/29/12 14:34	1
Toluene-d8 (Surr)	103		80 - 120		02/29/12 14:34	1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.49	ug/L		02/26/12 16:57	03/03/12 02:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	68		30 - 120			02/26/12 16:57	03/03/12 02:55	1

Client Sample Results

Client: CDM Smith, Inc.

Project/Site: Omega Chemical Groundwater

TestAmerica Job ID: 440-3385-1

Client Sample ID: OC-GW-PZ5N-022112

Lab Sample ID: 440-3385-7

Date Collected: 02/21/12 13:23

Matrix: Water

Date Received: 02/21/12 16:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L		02/29/12 15:02		1
1,1,1-Trichloroethane	ND		1.0	ug/L		02/29/12 15:02		1
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L		02/29/12 15:02		1
1,1,2-Trichloroethane	ND		1.0	ug/L		02/29/12 15:02		1
1,1-Dichloroethane	ND		1.0	ug/L		02/29/12 15:02		1
1,1-Dichloroethene	ND		1.0	ug/L		02/29/12 15:02		1
1,1-Dichloropropene	ND		1.0	ug/L		02/29/12 15:02		1
1,2,3-Trichlorobenzene	ND		1.0	ug/L		02/29/12 15:02		1
1,2,3-Trichloropropane	ND		1.0	ug/L		02/29/12 15:02		1
1,2,4-Trichlorobenzene	ND		1.0	ug/L		02/29/12 15:02		1
1,2,4-Trimethylbenzene	ND		1.0	ug/L		02/29/12 15:02		1
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L		02/29/12 15:02		1
1,2-Dichlorobenzene	ND		1.0	ug/L		02/29/12 15:02		1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L		02/29/12 15:02		1
1,2-Dichloroethane	ND		1.0	ug/L		02/29/12 15:02		1
1,2-Dichloropropene	ND		1.0	ug/L		02/29/12 15:02		1
1,3,5-Trimethylbenzene	ND		1.0	ug/L		02/29/12 15:02		1
1,3-Dichlorobenzene	ND		1.0	ug/L		02/29/12 15:02		1
1,3-Dichloropropane	ND		1.0	ug/L		02/29/12 15:02		1
1,4-Dichlorobenzene	ND		1.0	ug/L		02/29/12 15:02		1
2,2-Dichloropropane	ND		1.0	ug/L		02/29/12 15:02		1
2-Chlorotoluene	ND		1.0	ug/L		02/29/12 15:02		1
4-Chlorotoluene	ND		1.0	ug/L		02/29/12 15:02		1
p-Isopropyltoluene	ND		1.0	ug/L		02/29/12 15:02		1
Benzene	ND		0.50	ug/L		02/29/12 15:02		1
Bromobenzene	ND		1.0	ug/L		02/29/12 15:02		1
Bromochloromethane	ND		1.0	ug/L		02/29/12 15:02		1
Bromodichloromethane	ND		1.0	ug/L		02/29/12 15:02		1
Bromoform	ND		1.0	ug/L		02/29/12 15:02		1
Bromomethane	ND		1.0	ug/L		02/29/12 15:02		1
Carbon tetrachloride	ND		0.50	ug/L		02/29/12 15:02		1
Chlorobenzene	ND		1.0	ug/L		02/29/12 15:02		1
Chloroethane	ND		1.0	ug/L		02/29/12 15:02		1
Chloroform	ND		1.0	ug/L		02/29/12 15:02		1
Chloromethane	ND		1.0	ug/L		02/29/12 15:02		1
cis-1,2-Dichloroethene	ND		1.0	ug/L		02/29/12 15:02		1
cis-1,3-Dichloropropene	ND		0.50	ug/L		02/29/12 15:02		1
Dibromochloromethane	ND		1.0	ug/L		02/29/12 15:02		1
Dibromomethane	ND		1.0	ug/L		02/29/12 15:02		1
Dichlorodifluoromethane	ND		1.0	ug/L		02/29/12 15:02		1
Ethylbenzene	ND		1.0	ug/L		02/29/12 15:02		1
Hexachlorobutadiene	ND		1.0	ug/L		02/29/12 15:02		1
Isopropylbenzene	ND		1.0	ug/L		02/29/12 15:02		1
m,p-Xylene	ND		1.0	ug/L		02/29/12 15:02		1
Methylene Chloride	ND		5.0	ug/L		02/29/12 15:02		1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	ug/L		02/29/12 15:02		1
Naphthalene	ND		1.0	ug/L		02/29/12 15:02		1
n-Butylbenzene	ND		1.0	ug/L		02/29/12 15:02		1
N-Propylbenzene	ND		1.0	ug/L		02/29/12 15:02		1
o-Xylene	ND		1.0	ug/L		02/29/12 15:02		1
sec-Butylbenzene	ND		1.0	ug/L		02/29/12 15:02		1